04/13/2005

Bank: (RTP - General Questions)

Airman Knowledge Test Question Bank

Generated for St. George applicants retesting for the Aviation Mechanic Powerplant ONLY Exam (General Questions).

The FAA computer-assisted testing system is supported by a series of supplement publications. These publications, available through several aviation publishers, include the graphics, legends, and maps that are needed to successfully respond to certain test items.

1. A04G AMG

Which is correct concerning a parallel circuit?

- A) Total resistance will be smaller than the smallest resistor.
- B) Total resistance will decrease when one of the resistances is removed.
- C) Total voltage drop is the same as the total resistance.
- 2. A04G AMG

Transfer of electric energy from one circuit to another without the aid of electrical connections A) is called induction.

- B) is called capacitance.
- C) can cause excessive arcing and heat, and as a result is practical for use only with low voltages/amperages.
- 3. A04G AMG

Which of these will cause the resistance of a conductor to decrease?

- A) Decrease the length or the cross sectional area.
- B) Decrease the length or increase the cross sectional area.
- C) Increase the length or decrease the cross sectional area.
- 4. A04G AMG

Through which material will magnetic lines of force pass the most readily?

- A) Copper.
- B) Iron.
- C) Aluminum.
- 5. A04G AMG

If three resistors of 3 ohms, 5 ohms, and 22 ohms are connected in series in a 28-volt circuit, how much current will flow through the 3-ohm resistor?

A) 9.3 amperes.

B) 1.05 amperes.C) 0.93 ampere.			
6. A040 (Refer to General f A) 6.0 amperes. B) 2.4 amperes. C) 3.0 amperes.		AMG at flowing in the wire between points C and D.	
A) The current is st	he current in a voltage step up tepped down by a 1 to 4 ratio. tepped up by a 1 to 4 ratio.	AMG transformer with a ratio of 1 to 4?	
8. A040 (Refer to General f A) 0.2 ampere. B) 1.4 amperes. C) 0.8 ampere.	G rigure 13.) Determine the total	AMG current flow in the circuit.	
9. A040 Which requires the	G most electrical power?	AMG	
 (Note: 1 horsepower = 746 watts) A) Four 30-watt lamps arranged in a 12-volt parallel circuit. B) A 1/5-horsepower, 24-volt motor which is 75 percent efficient. C) A 24-volt anticollision light circuit consisting of two light assemblies which require 3 amperes each during operation. 			
10.What unit is used to A) Volt.B) Watt.C) Ampere.	A04G o express electrical power?	AMG	
11.Which of the followA) Anodes.B) Cathodes.	A04G ving are commonly used as red	AMG ctifiers in electrical circuits?	

C) Diodes.		
12.	A04G	AMG
What is the A) 1.07 ohm B) 26 ohms. C) 0.93 ohm	as.	a 30-watt light bulb designed for a 28-volt system?
13.	A04G	AMG
(Refer to Ge	eneral figure 12.) Find th	e total resistance of the circuit.
A) 16 ohms.		
B) 2.6 ohms		
C) 21.2 ohm	IS.	
14.	A04G	AMG
Which is cor	rrect in reference to elec	trical resistance?
	trical devices will have they will have they will have if connected	ne same combined resistance if they are connected in lin parallel.
B) If one of the will become	•	lighting circuit is removed, the total resistance of the circuit
	ical device that has a hiç vith the same applied vol	gh resistance will use more power than one with a low ltage.
15.	A04G	AMG
(Refer to Ge	eneral figure 14.) The tot	al resistance of the circuit is
A) 25 ohms.		
B) 35 ohms.		
C) 17 ohms.		
16.	A04G	AMG
	urce is required to furnisue. What is the value of	sh 192 watts to a parallel circuit consisting of three resistors each resistor?
A) 36 ohms.		
B) 4 ohms.		
C) 12 ohms.		
17.	A04G	AMG
The voltage	drop in a circuit of know	n resistance is dependent on
A) the voltage	ge of the circuit.	
B) only the r amperage.	esistance of the conduc	tor, and does not change with a change in either voltage or

C) the amperage of	of the circuit.	
18.	A04G	AMG
	oplied voltage of 30 volts and a lostor. What is the voltage drop ac	ead consisting of a 10-ohm resistor in series ross the 10-ohm resistor?
19.	A04G	AMG
(Refer to General to A) 8 volts. B) 20.4 volts. C) 24 volts.	figure 11.) Find the voltage acros	ss the 8-ohm resistor.
20.	A06G	AMG
		s (no load voltage = 2.1 volts per cell) ce. The internal resistance of the battery in
21.	A06G	AMG
A fully charged lea because	d acid battery will not freeze unti	I extremely low temperatures are reached
A) the acid is in the	e plates, thereby increasing the s	specific gravity of the solution.
B) most of the acid	is in the solution.	
C) increased interr	nal resistance generates sufficier	nt heat to prevent freezing.
22.	A06G	AMG
	he amount of current which will fortant voltage source?	low through a battery while it is being
A) The total plate a	area of the battery.	
B) The state of cha	arge of the battery.	
C) The ampere ho	ur capacity of the battery.	
23.	A06G	AMG
The electrolyte of a	a nickel cadmium battery is the lo	owest when the battery is
A) being charged.		
B) in a discharged	condition.	

24.	A06G	AMG
The purpose to	e of providing a space und	derneath the plates in a lead acid battery's cell container is
A) allow for	convection flow of the ele-	ctrolyte in order to provide for cooling of the plates.
B) prevent s	sediment buildup from con	tacting the plates and causing a short circuit.
C) ensure th	nat the electrolyte quantity	ratio to the number of plates and plate area is adequate.
25.	A06G	AMG
Nickel-cadm because	nium batteries which are st	tored for a long period of time will show a low liquid level
A) electrolyt	te evaporates through the	vents.
B) of curren	t leakage from individual o	cells.
C) electroly	te becomes absorbed into	the plates.
26.	A06G	AMG
	e following best describes attery installed in an aircra	the contributing factors to thermal runaway in a nickel-ft?
		by high cell temperatures and a high current otential (voltage) charging system.
	rnal resistance intensified l harge rate in a constant cu	by high cell temperatures and a high voltage urrent charging system.
		by high cell temperatures and a high current otential (voltage) charging system.
27.	A06G	AMG
•	ce of any small amount of attery cells in service is an	potassium carbonate deposits on the top of nickel-indication of
A) normal o	peration.	
B) excessive	e gassing.	
	fation.	
C) plate sulf		
C) plate sulf 28.	A06G	AMG
28.	e from a lead-acid battery i	AMG is spilled in the battery compartment, which procedure
28. If electrolyte should be for	e from a lead-acid battery i ollowed?	
28. If electrolyte should be for A) Apply bo	e from a lead-acid battery i ollowed?	is spilled in the battery compartment, which procedure ected area followed by a water rinse.
28. If electrolyte should be for A) Apply bo B) Rinse the	e from a lead-acid battery i ollowed? ric acid solution to the affe e affected area thoroughly	is spilled in the battery compartment, which procedure ected area followed by a water rinse.
28. If electrolyte should be for A) Apply bo B) Rinse the	e from a lead-acid battery i ollowed? ric acid solution to the affe e affected area thoroughly	ected area followed by a water rinse. with clean water.

true?

- A) The hydrometer reading does not require a temperature correction if the electrolyte temperature is 80 °F.
- B) A specific gravity correction should be added to the hydrometer reading if the electrolyte temperature is below 59 °F.
- C) The hydrometer reading will give a true indication of the capacity of the battery regardless of the electrolyte temperature.

30. A06G AMG

Which of the following statements is/are generally true regarding the charging of several aircraft batteries together?

- 1. Batteries of different voltages (but similar capacities) can be connected in series with each other across the charger, and charged using the constant current method.
- 2. Batteries of different ampere-hour capacity and same voltage can be connected in parallel with each other across the charger, and charged using the constant voltage method.
- 3. Batteries of the same voltage and same ampere-hour capacity must be connected in series with each other across the charger, and charged using the constant current method.
- A) 3.
- B) 2 and 3.
- C) 1 and 2.

31. A06G AMG

The method used to rapidly charge a nickel cadmium battery utilizes

- A) constant current and constant voltage.
- B) constant current and varying voltage.
- C) constant voltage and varying current.

32. A06G AMG

What is the likely result of servicing and charging nickel-cadmium and lead acid batteries together in the same service area?

- A) Lowered amp-hour capacities, especially for the nickel-cadmium batteries.
- B) A somewhat reduced battery service life for both types of batteries.
- C) Contamination of both types of batteries.

33. A06G AMG

The end of charge voltage of a 19 cell nickel cadmium battery, measured while still on charge,

- A) must be 1.2 to 1.3 volts per cell.
- B) must be 1.4 volts per cell.
- C) depends upon its temperature and the method used for charging.

34. A06G AMG

What may result if water is added to a nickel cadmium battery when it is not fully charged?

A) Excessive	electrolyte dilution.	
B) Excessive	spewing is likely to occu	ur during the charging cycle.
C) No advers	se effects since water ma	ay be added anytime.
35.	A06G	AMG
When a char	ging current is applied to	a nickel cadmium battery, the cells emit gas only
A) toward the	e end of the charging cyc	ile.
B) when the	electrolyte level is low.	
C) if they are	defective.	
36.	A06G	AMG
Which condit battery?	ion is an indication of im	properly torqued cell link connections of a nickel cadmium
A) Light spev	ving at the cell caps.	
B) Toxic and	corrosive deposits of po	tassium carbonate crystals.
C) Heat or bu	urn marks on the hardwa	re.
37.	A03G	AMG
	neans .001 ampere?	
A) Microamp		
B) Kiloamper		
C) Milliamper	re.	
38.	A03G	AMG
(Refer to figu		connected into the circuit as shown, what will the
A) 20 ohms.		
B) Infinite res	sistance.	
C) 10 ohms.		
39.	A03G	AMG
(Refer to Ger correctly?	neral figure 9.) How man	y instruments (voltmeters and ammeters) are installed
A) Three.		
B) One.		
C) Two.		
40.	A03G	AMG
The correct v	vay to connect a test volt	tmeter in a circuit is
A) in series v	•	
•		

C) in parallel with a unit.			
41.	A03G	AMG	
(Refer to figure 7.		terminal D, what will the ohmmeter read?	
B) 10 ohms.	00.		
C) 20 ohms.			
42.	A03G	AMG	
the resistor be rec	quired to dissipate?	it carrying .05 ampere. How much power will	
A) At least .70 mil			
B) At least 35 mill C) Less than .035			
O) Less than .000	watt.		
43.	A03G	AMG	
	of 10 watts and a dome light of 2 age across the 10-watt light is me	20 watts are connected in parallel to a 30-volt easured, it will be	
A) equal to the vo	Itage across the 20-watt light.		
,	across the 20-watt light.		
C) one-third of the	e input voltage.		
44.	A03G	AMG	
(Refer to General terminals A and B		voltage of the series parallel circuit between	
A) 1.5 volts.			
B) 3.0 volts.			
C) 6.0 volts.			
45.	A03G	AMG	
.002KV equals			
A) 20 volts.			
B) 2.0 volts.			
C) .2 volt.			
46.	A05G	AMG	
(Refer to figure 26 inputs?	S.) Which of the logic gate output	conditions is correct with respect to the given	
A) 1.			
B) 2.			

B) between the source voltage and the load.

C) 3.		
47.	A05G	AMG
(Refer to figure 2	25.) In a functional and operating	circuit, the depicted logic gate's output will be
A) only when all	inputs are 0.	
B) when all input	ts are 1.	
C) when one or	more inputs are 0.	
48.	A05G	AMG
(Refer to Genera	al figure 24.) Which statement con	cerning the depicted logic gate is true?
A) Any input being	ng 1 will produce a 0 output.	
B) Any input being	ng 1 will produce a 1 output.	
C) All inputs mus	st be 1 to produce a 1 output.	
49.	A05G	AMG
In a P-N-P transi	istor application, the solid state de	evice is turned on when the
A) base is negat	ive with respect to the emitter.	
B) base is positive	ve with respect to the emitter.	
C) emitter is neg	gative with respect to the base.	
50.	A05G	AMG
Typical application	on for zener diodes is as	
A) full-wave rect	ifiers.	
B) half-wave rec	tifiers.	
C) voltage regula	ators.	
51.	A05G	AMG
	sistor application, the solid state of	device is turned on when the
,	itive with respect to the base.	
,	ive with respect to the emitter.	
C) base is positive	ve with respect to the emitter.	
52.	A05G	AMG
(Refer to Genera current (positive		correct concerning bias application and
A) 1.		
B) 2.		
C) 3.		

53.	A05G	AMG
When referrir	ng to an electrical circuit	diagram, what point is considered to be at zero voltage?
A) The circuit	breaker.	
B) The groun	d reference.	
C) The switch	١.	
54.	A05G	AMG
(Refer to figu	re 21.) Which symbol re	presents a variable resistor?
A) 2.		
B) 1.		
C) 3.		
55.	A05G	AMG
(Refer to Ger	neral figure 17.) Which of	f the components is a potentiometer?
A) 5.		
B) 3.		
C) 11.		
56.	A05G	AMG
(Refer to Ger	neral figure 15.) The No.	7 wire is used to
•	PUSH TO TEST circuit.	
B) open the l	JP indicator light circuit v	when the landing gear is retracted.
C) close the	UP indicator light circuit v	when the landing gear is retracted.
57.	A05G	AMG
		uit with the fuel tank selector switch selected to the left
		dentify the switches that will change position.
A) 5, 9, 10, 1	1, 12, 13, 15.	
B) 3, 5, 6, 7,	11, 13.	
C) 5, 6, 11, 1	2, 13, 15, 16.	
58.	A05G	AMG
A thermal sw	itch, as used in an electr	ric motor, is designed to
	ntegral fan circuit to allov	•
ŕ	circuit in order to allow co	-
	e circuit to ground.	
59.	A05G	AMG
		ill operate if 24 volts dc is applied to the bus and the fuel
tank selector	is in the	

A) right hand	tank position.			
B) crossfeed	B) crossfeed position.			
C) left hand to	ank position.			
60.	A05G	AMG		
		power to the bus and the fuel selector switched to the right system are operating?		
A) Three.				
B) Two.				
C) Four.				
61.	A05G	AMG		
(Refer to Gen	eral figure 16.) When	electrical power is applied to the bus, which relays are		
A) PCC and 1	rcc.			
B) TCC and T				
C) PCO and I	PCC.			
62.	A05G	AMG		
	neral figure 18.) When will not sound if an op	the landing gears are up and the throttles are retarded, the pen occurs in wire		
A) No. 4.				
B) No. 2.				
C) No. 9.				
63.	A05G	AMG		
(Refer to figure	•	ve switch must be placed in the neutral position when the		
A) permit the	test circuit to operate.			
B) prevent the	e warning horn from s	ounding when the throttles are closed.		
C) remove the	e ground from the gre	en light.		
64.	A05G	AMG		
		which condition will a ground be provided for the warning nen the throttles are closed?		
A) Right gear	up and left gear dowr	٦.		
B) Both gears	s up and the control va	alve out of neutral.		
C) Left gear u	ıp and right gear dowr	1.		
65.	A05G	AMG		
(Refer to figu	re 19.) When the throt	tles are retarded with only the right gear down, the warning		
, 3 -	,	, , , , ,		

horn will not sou	and if an open occurs in	wire
A) No. 5.		
B) No. 13.		
C) No. 6.		
66.	A05G	AMG
	19.) When the landing go and if an open occurs in v	ears are up and the throttles are retarded, the warning wire
A) No. 5.		
B) No. 7.		
C) No. 6.		
67.	A05G	AMG
(Refer to General circuit will	al figure 20.) Troublesho	oting an open circuit with a voltmeter as shown in this
A) permit current	t to flow and illuminate th	ne lamp.
B) create a low i	resistance path and the	current flow will be greater than normal.
C) permit the ba	ttery voltage to appear of	on the voltmeter.
00	4050	4140
68.	A05G	AMG
•	•	in the up position, the light will
A) be on full brig	jnt.	
B) be very dim.		
C) not illuminate	•	
69.	A05G	AMG
(Refer to General left hand tank is	,	e the effect if the PCO relay fails to operate when the
A) The fuel pres	sure crossfeed valve will	I not open.
B) The fuel tank	crossfeed valve open lig	ght will illuminate.
C) The fuel pres	sure crossfeed valve op	en light will not illuminate.
70.	A05G	AMG
	al figure 15.) With the lar	nding gear retracted, the red indicator light will not
A) No. 19.		
B) No. 7.		
C) No. 17.		
71.		
	A05G	AMG

A) No. 7.		
B) No. 6.		
C) No. 17.		
72.	B02G	AMG
	ng purposes, almost all c es; these include the	objects are composed of one or some combination of six
A) angle, a	rc, line, plane, square, an	d circle.
B) triangle,	circle, cube, cylinder, col	ne, and sphere.
C) triangle,	plane, circle, line, square	e, and sphere.
73.	B02G	AMG
1. Sketches	s are usually made with the	he aid of drafting instruments.
2. Sketches	s are usually more compl	icated to make when using graph paper.
Regarding	the above statements:	
A) Only No.	. 1 is true.	
B) Only No.	. 2 is true.	
C) Neither I	No. 1 nor No. 2 is true.	
74.	B02G	AMG
	ng to 14 CFR Part 91, repuded in the permanent re	pairs to an aircraft skin should have a detailed dimensional cords.
, ,	asion, a mechanic may ne ew design, or a modificat	eed to make a simple sketch of a proposed repair to an tion.
Regarding	the above statements,	
A) only No.	1 is true.	
B) only No.	2 is true.	
C) both No.	. 1 and No. 2 are true.	
75.	B02G	AMG
A simple wa	ay to find the center of a	circle on a sketch or drawing, or a circular piece of material
	o non-parallel chord lines e across each chord line.	across the circle and then a corresponding perpendicular
	o parallel chord lines acro e across each chord line.	oss the circle and then a corresponding perpendicular

C) draw a single chord line across the circle and then a corresponding perpendicular bisector

an open occurs in wire

line across the chord line.

76.	B02G	AMG
(Refer to General alterations?	l figure 31.) What are the proper բ	procedural steps for sketching repairs and
A) 3, 1, 4, 2.		
B) 4, 2, 3, 1.		
C) 1, 3, 4, 2.		
77.	B02G	AMG
(Refer to General illustration?	I figure 32.) What is the next step	required for a working sketch of the
A) Darken the ob	ject outlines.	
B) Sketch extens	ion and dimension lines.	
C) Add notes, din	nensions, title, and date.	
78.	B02G	AMG
What should be t	he first step of the procedure in s	ketching an aircraft wing skin repair?
A) Draw heavy g	uidelines.	
B) Lay out the rep		
C) Block in the vi	ews.	
79.	B02G	AMG
What material sy	mbol is frequently used in drawing	gs to represent all metals?
A) Steel.		
B) Cast iron.		
C) Aluminum.		
80.	B02G	AMG
(Refer to Genera	I figure 33.) Which material section	on line symbol indicates cast iron?
A) 1.		
B) 2.		
C) 3.		
81.	B02G	AMG
What is the class	of working drawing that is the de	scription/depiction of a single part?
A) Installation dra	awing.	
B) Assembly draw	wing	
C) Detail drawing		
82.	B03G	AMG
When reading a b	olueprint, a dimension is given as	4.387 inches +.003002. Which statement

is true?			
A) The maximum acceptable size is 4.390 inches.			
B) The minimum acceptable size is 4.386 inches.			
C) The minimum a	cceptable size is 4.382 inches.		
83.	B03G	AMG	
What is the allowal shown on the blue		bushing where the outside dimensions	
1.0625 + .00250	0003?		
A) .0028.			
B) 1.0650.			
C) 1.0647.			
,			
84.	B03G	AMG	
A hydraulic system	schematic drawing typically indi	cates the	
	of the individual components wit		
	I flow through the system.		
C) amount of press	sure in the pressure and return lin	nes, and in system components.	
85.	B03G	AMG	
•	,	etween the top of the plate and the bottom	
of the lowest 15/64	I-inch hole is		
A) 2.250.			
B) 2.242.			
C) 2.367.			
86.	B03G	AMG	
	figure 36.) The diameter of the ho		
A) 3/4 inch.			
B) 31/64 inch.			
C) 1/2 inch.			
87.	B03G	AMG	
(Refer to General f clevis bolthole?	figure 34.) Using the information,	what size drill would be required to drill the	
A) 5/16 inch.			
B) 21/64 inch.			
C) 1/2 inch.			

88.	B03G	AMG
(Refer to General	figure 34.) What is the dimension	of the chamfer?
A) 1/16 X 37°.		
B) 0.3125 +.005 -0	D.	
C) 0.0625 X 45°.		
89.	B03G	AMG
(Refer to General	figure 34.) What is the maximum	diameter of the hole for the clevis pin?
A) 0.3175.	,	·
B) 0.3130.		
C) 0.31255.		
,		
90.	B03G	AMG
(Refer to General		nimum diameter of 4130 round stock
B) 1 inch.		
C) 7/8 inch.		
91.	B03G	AMG
(Refer to General	figure 35.) Identify the extension	line.
A) 3.		
B) 1.		
C) 4.		
,		
92.	B03G	AMG
One purpose for s	chematic diagrams is to show the	
A) functional locat	ion of components within a syste	m.
ŕ	n of components within a system	
, , ,	of components within a system.	
93.	B03G	AMG
The drawings ofter	n used in illustrated parts manual	s are
A) exploded view		
B) block drawings.	· ·	
C) detail drawings		
-, asia a.a190	•	
94.	B03G	AMG
		shown as brought together on the aircraft is

A) an assembly drawing.			
B) an installation drawing.			
C) a detail drawing.			
95.	B03G	AMG	
_	s are best suited for which of the rall location and appearance of (•	
,	system malfunctions.	components in a system.	
,	ial details of individual compone	nte in a evetom	
c) Showing the visc	iai detaiis oi individual compone	nis in a system.	
96.	B03G	AMG	
In what type of electrical symbols?	trical diagram are images of con	nponents used instead of conventional	
A) A pictorial diagra	m.		
B) A schematic diag	ıram.		
C) A block diagram.			
0.7	D000	4440	
	B03G	AMG	
	showing the ideal or 'perfect' siz	es of parts on drawings are called	
A) dimensions.			
B) tolerances.			
C) allowances.			
98.	B04G	AMG	
(Refer to General fig temperature is 80 °F		ension for a 1/8-inch cable (7 x 19) if the	
A) 70 pounds.			
B) 75 pounds.			
C) 80 pounds.			
99.	B04G	AMG	
flex) if the temperation		ension for a 3/16-inch cable (7 x 19 extra	
A) 135 pounds.			
B) 125 pounds.			
C) 140 pounds.			
100.	B04G	AMG	
(Refer to General fig cruise, 2,350 RPM.	gure 41.) Determine the fuel con	sumption with the engine operating at	
A) 49.2 pounds per	hour.		

B) 51.2 pounds p	B) 51.2 pounds per hour.			
C) 55.3 pounds p	C) 55.3 pounds per hour.			
101.	B04G	AMG		
(Refer to General reserve operating	,	now much fuel would be required for a 30-minute		
A) 25.3 pounds.				
B) 35.5 pounds.				
C) 49.8 pounds.				
102.	B04G	AMG		
	d develops 1,250 brake	reciprocating engine has a 1,830 cubic-inch horsepower at 2,500 RPM. What is the brake mean		
A) 217.				
B) 205.				
C) 225.				
103.	B04G	AMG		
displacement, de		reciprocating engine has a 2,800 cubic-inch sepower, and indicates 270 brake-mean effective M)?		
A) 2,200.				
B) 2,100.				
C) 2,300.				
104.	B04G	AMG		
	d develops 2,000 brake-	reciprocating engine has a 2,800 cubic-inch horsepower at 2,200 RPM. What is the brake mean		
A) 257.5.				
B) 242.5.				
C) 275.0.				
105.	B04G	AMG		
	uous rating, running fror	the cable size of a 40-foot length of single cable in free n a bus to the equipment in a 28-volt system with a 15-		
A) No. 10.				
B) No. 11.				
C) No. 18.				

106.	B04G	AMG
		kimum length of a No. 16 cable to be installed a with a 25-ampere intermittent load and a 1-volt
A) 8 feet.		
B) 10 feet.		
C) 12 feet.		
107.	B04G	AMG
	s current of 20 amperes 10	imum wire size of a single cable in a bundle feet from the bus to the equipment in a 28-volt
A) No. 12.		
B) No. 14.		
C) No. 16.		
108.	B04G	AMG
be used between a 2		ximum length of a No. 12 single cable that can nt utilizing 20 amperes continuous load in free
5, 1215 1511		
109.	C02G	AMG
	used for items of useful loa	CG of an aircraft, minimum weights, arms, and d that are located aft of the
110.	C02G	AMG
the rearward limit du		heck to determine that the CG will not exceed e items of useful load which should be ocated forward of the
A) forward CG limit.		
B) datum.		
C) rearward CG limit	i.	
111.	C02G	AMG
as follows:	inpry weight of 1,800 pound	ds and an empty weight CG of +31.5 was altered

 structural modification a seat and safety be 	enger seats located at +72 were ons increasing the weight 14 po elt weighing 20 pounds were ins ghing 30 pounds was installed weight CG?	unds were made at +76; talled at +73.5; and		
112.	C02G	AMG		
as follows:	oty weight of 2,100 pounds and enger seats located at +73 were	an empty weight CG +32.5 was altered		
	ons were made at +77 increasir			
	elt weighing 25 pounds were ins			
·	ghing 35 pounds was installed			
What is the new empty	weight CG?			
A) +34.01.				
B) +33.68.				
C) +34.65.				
113.	C02G	AMG		
An aircraft as loaded weighs 4,954 pounds at a CG of +30.5 inches. The CG range is +32.0 inches to +42.1 inches. Find the minimum weight of the ballast necessary to bring the CG within the CG range. The ballast arm is +162 inches.				
A) 61.98 pounds.				
B) 30.58 pounds.				
C) 57.16 pounds.				
114.	C02G	AMG		
Find the empty weight CG location for the following tricycle gear aircraft. Each main wheel weighs 753 pounds, nosewheel weighs 22 pounds, distance between nosewheel and main wheels is 87.5 inches, nosewheel location is +9.875 inches from datum, with 1 gallon of hydraulic fluid at -21.0 inches included in the weight scale.				
A) +97.375 inches.				
B) +95.61 inches.				
C) +96.11 inches.				
115.	C02G	AMG		

An aircraft had an empty weight of 2,886 pounds with a moment of 101,673.78 before several alterations were made. The alterations included:

1. removing two passenger seats (15 pounds each) at +71;

2. installing a ca	binet (97 pounds) at +	-71;			
3. installing a se	at and safety belt (20	pounds) at +71; and			
4. installing radio	o equipment (30 pound	ds) at +94.			
The alterations of	caused the new empty	weight CG to move			
A) 1.62 inches a	ft of the original empty	y weight CG.			
B) 2.03 inches for	orward of the original	empty weight CG.			
C) 2.03 inches a	ft of the original empty	y weight CG.			
116.	C02G	AMG			
If a 40-pound ge	nerator applies +1400	O-inch pounds to a refere	nce axis, the generator is locate	d	
A) -35 from the a	axis.				
B) +35 from the	axis.				
C) +25 from the	axis.				
117.		C02G	AMG		
	d of the main goor oor		AWG		
Datum is forward	d of the main gear cer	iter point.	20.24 inches		
A - 4 1 - 4: - 4 1	h atuus an ta'il maan an d		30.24 inches		
Actual distance i	between tall gear and	main gear center points:			
			360.26 inches		
Net weight at rig	ht main gear:	9,980 pounds			
Net weight at lef	t main gear:	9,770 pounds			
Net weight at tai	l gear:	1,970 pounds			
These items wer	re in the aircraft when	weighed:			
1. Lavatory wate	er tank full (34 pounds	at +352).			
2. Hydraulic fluic	d (22 pounds at -8).				
3. Removable ba	3. Removable ballast (146 pounds at +380).				
What is the emp	What is the empty weight CG of the aircraft described above?				
A) 62.92 inches.					
B) 60.31 inches.					
C) 58.54 inches.					
118.	C02G	AMG			
			t the main gears is 3,540 pound	ls	
with an arm of 1	95.5 inches. At the no	se gear, the net weight i	s 2,322 pounds with an arm of ift. What is the empty CG of the		
A) 151.1.					

B) 155.2.C) 146.5.

119.	C02G	AMG			
The following alteration was performed on an aircraft: A model B engine weighing 175 pounds was replaced by a model D engine weighing 185 pounds at a -62.00 inch station. The aircraft weight and balance records show the previous empty weight to be 998 pounds and an empty weight CG of 13.48 inches. What is the new empty weight CG?					
A) 13.96 inches.					
B) 14.25 inches.					
C) 12.73 inches.					
,					
120.	C02G	AMG			
However, when the airc	craft was weighed, 20 pounds o	662 pounds with a moment of 885,957. If potable water were on board at +84, If at +101. What is the empty weight CG			
A) 150.700.					
B) 151.700.					
C) 151.365.					
121.	C02G	AMG			
If the empty weight CG	of an airplane lies within the en	mpty weight CG limits,			
A) it is necessary to cal	Iculate CG extremes.				
B) it is not necessary to	calculate CG extremes.				
C) minimum fuel should	d be used in both forward and r	earward CG checks.			
,					
122.	C02G	AMG			
The amount of fuel use	d for computing empty weight a	and corresponding CG is			
A) empty fuel tanks.					
B) unusable fuel.					
C) the amount of fuel n	ecessary for 1/2 hour of operati	on.			
123.	C02G	AMG			
When determining the empty weight of an aircraft, certificated under current airworthiness standards (14 CFR Part 23), the oil contained in the supply tank is considered					
A) a part of the empty v	A) a part of the empty weight.				
B) a part of the useful load.					
C) the same as the fluid	C) the same as the fluid contained in the water injection reservoir.				
124.	C02G	AMG			
		,			
	The CG range in single rotor helicopters is				
 A) much greater than for 	n ampianes.				

B) approximately the same as the CG range for airplanes.

125.	C02G	AMG
-		
	s being equal, if an item of CG change will be	useful load located aft of an aircraft's CG is removed
A) aft in propo	ortion to the weight of the it	em and its location in the aircraft.
B) forward in p	proportion to the weight of	the item and its location in the aircraft.
C) forward in լ	proportion to the weight of	the item, regardless of its location in the aircraft.
126.	C02G	AMG
The maximum found	weight as used in weight	and balance control of a given aircraft can normally b
A) by adding t empty weight.		passengers, and maximum allowable baggage to the
B) in the Aircra	aft Specification or Type C	ertificate Data Sheet.
C) by adding t	the empty weight and paylo	pad.
127.	C02G	AMG
The useful loa	d of an aircraft is the differ	rence between
A) the maximu	um takeoff weight and basi	c empty weight.
B) maximum r	amp or takeoff weight as a	applicable, and zero fuel weight.
		eats filled, full baggage/cargo, and full fuel, and (2) aggage/cargo, and minimum operating fuel.
128.	C02G	AMG
An aircraft's L	EMAC and TEMAC are de	fined in terms of distance
A) from the da	atum.	
B) from each o	other.	
C) ahead of a	nd behind the wing center	of lift, respectively.
129.	C02G	AMG
If an aircraft C	G is found to be at 24 per	cent of MAC, that 24 percent is an expression of the
	om the TEMAC.	
B) distance fro	om the LEMAC.	
C) average dis	stance from the LEMAC to	the wing center of lift.
130.	C02G	AMG
	olishing loading computation	ns for a small aircraft, necessary information obtaine uld include
_		
A) unusable fu	uel weight and distance fro	m datum.

C) current empty weight and empty weight CG.					
131.	D01G	AMG			
When installing	bonded clamps to suppor	t metal tubing.			
_	from tubing is not recom	-			
	•	lation to prevent corrosion.			
	or anodizing from tube a	•			
	-				
132.	D01G	AMG			
(1) Bonded clam	nps are used for support v	when installing metal tubing.			
(2) Unbonded cl	amps are used for suppo	t when installing wiring.			
Regarding the a	bove statements,				
A) only No. 1 is t	true.				
B) both No. 1 an	d No. 2 are true.				
C) neither No. 1	nor No. 2 is true.				
133.	D01G	AMG			
When flaring alu	When flaring aluminum tubing for use with AN fittings, the flare angle must be				
A) 37°.	A) 37°.				
B) 39°.					
C) 45°.					
134.	D01G	AMG			
From the following single flare on a		dicate the proper order you would use to make a			
1. Place the tube	e in the proper size hole i	n the flaring block.			
Project the endime.	d of the tube slightly from	the top of the flaring tool, about the thickness of a			
3. Slip the fitting	nut and sleeve on the tub	oe.			
	nger several light blows w turn after each blow.	ith a lightweight hammer or mallet and turn the			
5. Tighten the cl	amp bar securely to preve	ent slippage.			
6. Center the plu	inger or flaring pin over th	ne tube.			
A) 1, 3, 5, 2, 4, 6	S.				
B) 3, 1, 6, 2, 5, 4	1.				
C) 3, 1, 2, 6, 5, 4	1.				
135.	D01G	AMG			
What is an adva	ntage of a double flare or	aluminum tubing?			

D) WOIE resista	ant to damage when the join	it is tightened.
C) Can be app	olied to any size and wall-thic	ckness of tubing.
136.	D01G	AMG
The primary po	urpose of providing suitable	bends in fluid and pneumatic metal tubing runs i
A) clear obstac	cles and make turns in aircra	aft structures.
B) provide for	access within aircraft structu	ures.
C) prevent exc	essive stress on the tubing.	
137.	D01G	AMG
		egarding minimum allowable bend radii for 1.5 in
	minum alloy and steel tubing	
•	ım radius for steel is greater	
B) The minimu	ım radius for steel is less tha	an for aluminum.
C) The minimu	ım radius is the same for bo	th steel and aluminum.
138.	D01G	AMG
assembled usi A) AN-818-16. B) AN-818-8. C) AN-818-5.	•	ndard AN nuts, sleeves, and fittings?
139.	D01G	AMG
Which stateme	ent(s) about Military Standar	d (MS) flareless fittings is/are correct?
	Illation, MS flareless fittings than being torqued.	are normally tightened by turning the nut a specif
	• .	be assembled clean and dry without lubrication.
	• •	are normally tightened by applying a specified to
During insta to the nut.		
to the nut.		
to the nut. A) 1. B) 1 and 2.		
to the nut. A) 1.	D01G	AMG
to the nut. A) 1. B) 1 and 2. C) 3. 140. In most aircraf	t hydraulic systems, two pie	ce tube connectors consisting of a sleeve and a
to the nut. A) 1. B) 1 and 2. C) 3. 140. In most aircrafare used when	t hydraulic systems, two pie	AMG ce tube connectors consisting of a sleeve and a The use of this type connector eliminates

C) wrench damage to the tubing during the tightening process.				
141.	D01G	AMG		
What is the color of an A) Black. B) Blue. C) Red.	n AN steel flared tube fitting?			
142.	D01G	AMG		
Which of the following	statements is/are correct in refe	erence to flare fittings?		
-		e end of the threads and the flare cone. for material composition and identifying		
	erally interchangeable with AC fi	ttings of compatible material composition		
A) 1.				
B) 1 and 3. C) 1, 2, and 3.				
<i>O</i>) 1, 2, and 0.				
143.	D01G	AMG		
A 3/8 inch aircraft high same system will	n pressure flexible hose as comp	pared to 3/8 inch metal tubing used in the		
A) have about the san	ne OD.			
B) have equivalent flo				
C) usually have interc	hangeable applications.			
144.	D01G	AMG		
		abrasion resistance) necessary for use in attention of landing gear and flaps?		
A) 2024-T or 5052-0 a	•			
,	steel annealed or 1/4H.			
C) 1100-1/2H or 3003-1/2H aluminum alloy.				
145.	D01G	AMG		
Which of the following fluids?	hose materials are compatible	with phosphate-ester base hydraulic		
1. Butyl.				
2. Teflon.				
3. Buna-N.				
4. Neoprene.				

A) 1 and 3.					
B) 1 and 2.					
C) 2 and 4.	C) 2 and 4.				
146.	D01G	AMG			
Flexible hose used	in aircraft systems i	s classified in size according to the			
A) outside diamete	r.				
B) wall thickness.					
C) inside diameter.					
147.	D01G	AMG			
Metal tubing fluid li	ines are sized by wa	II thickness and			
A) outside diamete	er in 1/16 inch increm	nents.			
B) inside diameter	in 1/16 inch increme	ents.			
C) outside diamete	er in 1/32 inch increm	nents.			
148.	D01G	AMG			
		aircraft require that a replacement oil line be fabricated alloy tubing. What is the inside dimension of this tubing?			
A) 0.606 inch.					
B) 0.688 inch.					
C) 0.750 inch.					
149.	D01G	AMG			
		e for a time, what condition may have occurred and/or it is temporarily removed from the aircraft?			
•	A) The hose interior must be kept wet with the fluid carried to prevent				
embrittlement/deterioration.					
B) The hose may become stiff and brittle if not flexed or moved regularly.					
C) The hose may have developed a set, or have been manufactured with a pre-set shape, and must be supported to maintain its shape.					
150.	D01G	AMG			
A gas or fluid line r	marked with the lette	rs PHDAN is			
A) a dual-purpose	pneumatic and/or hy	draulic line for normal and emergency system use.			
B) used to carry a	hazardous substance	э.			
C) a pneumatic or	hydraulic system dra	in or discharge line.			
151.	D01G	AMG			
Which of the follow	ing defects are NOT	acceptable for metal lines?			
·					

2. Seams.		
3. Dents in the heel of a bend less than 20 percent of tube diameter.		
4. Scratches/nicks on the inside of a bend less than 10 percent of wall thickness.		
5. Dents in st	raight sections that are 20 p	ercent of wall thickness.
A) 1, 2, 3, 4, a	and 5.	
B) 1, 2, and 3		
C) 1, 2, 3, and	d 5.	
152.	D01G	AMG
In a metal tub	ing installation,	
A) rigid straig	ht line runs are preferable.	
B) tension is	undesirable because pressu	rization will cause it to expand and shift.
C) a tube may	be pulled in line if the nut w	vill start on the threaded coupling.
153.	D01G	AMG
A certain amo	ount of slack must be left in a	a flexible hose during installation because, when the
A) expands in	length and diameter.	
B) expands in	length and contracts in diar	neter.
C) contracts i	n length and expands in diar	neter.
154.	D01G	AMG
		ngs to which a straight hose assembly is to be see length to make such a connection should be
A) 54-1/2 inch	ies.	
B) 51-1/2 inch	ies.	
C) 52-1/2 inch	nes.	
	D01G	AMG
155.		iety of symbols utilized on the identifying color-co
Which statem	ent is true regarding the var e currently used on aircraft p	
Which statem bands that are	e currently used on aircraft p	
bands that are A) Symbols a	e currently used on aircraft pre composed of various sing	plumbing lines?
Which statem bands that are A) Symbols a B) Symbols a	e currently used on aircraft pre composed of various sing re always black against a wi	plumbing lines? gle colors according to line content.
Which statem bands that an A) Symbols a B) Symbols a	e currently used on aircraft pre composed of various sing re always black against a wi	olumbing lines? gle colors according to line content. hite background regardless of line content.

A) Along the entire length of the sleeve and tube interface.B) At the edge of the sleeve and straight portion of the tube.C) At the sleeve and flare junction.			
157.	D01G	AMG	
The best tool to use w	hen cutting aluminum tubing, or	r any tubing of moderately soft metal is a	
A) hand operated whe	el-type tubing cutter.		
B) fine-tooth hacksaw.			
C) circular-saw equipp	ed with an abrasive cutting whe	eel.	
158.	D01G	AMG	
	e regarding flattening of tubing		
	kimum of 20 percent of the origi		
B) Flattening by not me	ore than 25 percent of the origin	nal diameter is permissable.	
C) The small diameter of straight tubing.	portion in the bend cannot exce	eed more than 75 percent of the diameter	
159.	D01G	AMG	
A scratch or nick in alu	uminum tubing can be repaired	provided it does not	
A) appear in the heel of	of a bend.		
B) appear on the inside of a bend.			
C) exceed 10 percent of the tube OD on a straight section.			
160.	D01G	AMG	
Scratches or nicks on the straight portion of aluminum alloy tubing may be repaired if they are no deeper than			
A) 20 percent of the wall thickness.			
B) 1/32 inch or 20 percent of wall thickness, whichever is less.			
C) 10 percent of the wall thickness.			
161.	D01G	AMG	
Hydraulic tubing, which is damaged in a localized area to such an extent that repair is necessary, may be repaired			
A) by cutting out the damaged area and utilizing a swaged tube fitting to join the tube ends.			
B) only by replacing the that tubing section run (connection to connection) using the same size and material as the original.			
C) by cutting out the d	amaged section and soldering i	n a replacement section of tubing.	
162.	D01G	AMG	
	erning Bernoulli's principle is tru		
A) The pressure of a fluid increases at points where the velocity of the fluid increases.			

B) The pressure of a fluid decreases at points where the velocity of the fluid increases. C) It applies only to gases and vaporized liquids.			
163. D01G AMG The term "cold flow" is generally associated with A) the effects of low temperature gasses or liquids flowing in hose or tubing. B) impressions left in natural or synthetic rubber hose material. C) flexibility characteristics of various hose materials at low ambient temperatures.			
A bolt with an X ins A) NAS standard ai B) NAS close tolera C) AN corrosion res	ircraft bolt. ance bolt.	AMG ne head is classified as an	
165.	E04G	AMG	
Generally speaking, bolt grip lengths should be A) one and one half times the thickness of the material which is fastened together. B) equal to the thickness of the material which is fastened together, plus approximately one diameter. C) equal to the thickness of the material which is fastened together.			
166.	E04G	AMG	
When the specific torque value for nuts is not given, where can the recommended torque value be found? A) AC 43.13-2A. B) Technical Standard Order. C) AC 43.13-1B.			
167.	E04G	AMG	
(Refer to General figure 43.) Identify the clevis bolt illustrated. A) 1. B) 3. C) 2.			
168.	E04G	AMG	
	combination. If the	the aircraft structure by the use of an aircraft bolt and a cotter pin hole does not align within the recommended is to	
A) exceed the recommended torque range by no more than 10 percent.			
B) tighten below the torque range.			

A bolt with a single raised dash on the head is of AN corrosion resistant steel bolt. A NAS standard aircraft bolt. NAS close tolerance bolt. D NAS close tolerance toles. D NAS close tolerance toles. D NAS close tolerance toles. D NAS close t	AMG ect? colts, if the cotter pin holes do not line up, it is over recommended torque to permit alignment of e material thickness. eter should not be used in primary structure. AMG
A) AN corrosion resistant steel bolt. B) NAS standard aircraft bolt. C) NAS close tolerance bolt. 70. E04G Which statement regarding aircraft bolts is correctly when tightening castellated nuts on drilled between the next slot with the cotter pin hole. B) In general, bolt grip lengths should equal the company of the next slot with the cotter pin hole. C) Alloy steel bolts smaller than 1/4-inch diametral company of the next slot with the cotter pin hole. A) For tension and shear load conditions. B) Where external tension loads are applied. C) Only for shear load applications. For the aluminum code number 1100 identifies when the percent commercially pure aluminum. C) 99 percent commercially pure aluminum. For the four-digit aluminum index system number the percent of alloying metal added. B) the number of major alloying elements used	AMG ect? colts, if the cotter pin holes do not line up, it is over recommended torque to permit alignment of e material thickness. eter should not be used in primary structure. AMG
NAS standard aircraft bolt. NAS close tolerance bolt. E04G Which statement regarding aircraft bolts is correct. When tightening castellated nuts on drilled betwernissible to tighten the nut up to 10 percent of the next slot with the cotter pin hole. In general, bolt grip lengths should equal the C) Alloy steel bolts smaller than 1/4-inch diamet. T1. E04G Where is an AN clevis bolt used in an airplane? A) For tension and shear load conditions. Where external tension loads are applied. C) Only for shear load applications. E04G The aluminum code number 1100 identifies what all Aluminum alloy containing 11 percent copper all Aluminum alloy containing zinc. C) 99 percent commercially pure aluminum. T3. E04G In the four-digit aluminum index system number all the percent of alloying metal added. B) the number of major alloying elements used	ect? polts, if the cotter pin holes do not line up, it is over recommended torque to permit alignment of a material thickness. Iter should not be used in primary structure.
C) NAS close tolerance bolt. 70. E04G Which statement regarding aircraft bolts is corred. A) When tightening castellated nuts on drilled be permissible to tighten the nut up to 10 percent of the next slot with the cotter pin hole. B) In general, bolt grip lengths should equal the c) Alloy steel bolts smaller than 1/4-inch diamet. 71. E04G Where is an AN clevis bolt used in an airplane? A) For tension and shear load conditions. B) Where external tension loads are applied. C) Only for shear load applications. 72. E04G The aluminum code number 1100 identifies what allow a containing 11 percent copperate. A) Aluminum alloy containing 11 percent copperate. C) 99 percent commercially pure aluminum. 73. E04G The four-digit aluminum index system number allowed the percent of alloying metal added. B) the number of major alloying elements used	ect? polts, if the cotter pin holes do not line up, it is over recommended torque to permit alignment of a material thickness. Iter should not be used in primary structure.
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A) Aluminum alloy containing 11 percent coppers B) Aluminum alloy containing zinc. C) 99 percent commercially pure aluminum. T3. E04G In the four-digit aluminum index system number (A) the percent of alloying metal added. B) the number of major alloying elements used	AMG
3) Aluminum alloy containing zinc. C) 99 percent commercially pure aluminum. 73. E04G In the four-digit aluminum index system number A) the percent of alloying metal added. B) the number of major alloying elements used	at type of aluminum?
73. E04G In the four-digit aluminum index system number (A) the percent of alloying metal added. B) the number of major alloying elements used	r.
73. E04G In the four-digit aluminum index system number A) the percent of alloying metal added. B) the number of major alloying elements used	
n the four-digit aluminum index system number A) the percent of alloying metal added. B) the number of major alloying elements used	
A) the percent of alloying metal added. B) the number of major alloying elements used	AMG
B) the number of major alloying elements used	r 2024, the first digit indicates
B) the number of major alloying elements used	-
	in the metal.
74. E04G	AMG
How is the locking feature of the fiber type locking	
A) By the use of an unthreaded fiber locking ins	nut obtained?
B) By a fiber insert held firmly in place at the ba	
C) By making the threads in the fiber insert sligh	sert.

175.	E04G	AMG		
How is a clevis I	oolt used with a fork e	nd cable terminal secured?		
	A) With a shear nut tightened to a snug fit, but with no strain imposed on the fork and safetied with a cotter pin.			
,	B) With a castle nut tightened until slight binding occurs between the fork and the fitting to which it is being attached.			
,	C) With a shear nut and cotter pin or a thin self locking nut tightened enough to prevent rotation of the bolt in the fork.			
176.	E04G	AMG		
Aircraft bolts are	usually manufactured	d with a		
A) class 1 fit for	the threads.			
B) class 2 fit for	the threads.			
C) class 3 fit for	the threads.			
177.	E04G	AMG		
		narked on the bolthead are		
A) made of alum		larked on the bolthead are		
B) close tolerand	•			
C) standard stee				
,				
178.	E04G	AMG		
Unless otherwis	e specified, torque val	ues for tightening aircraft nuts and bolts relate to		
A) clean, dry thr	eads.			
B) clean, lightly	oiled threads.			
C) both dry and	lightly oiled threads.			
179.	E04G	AMG		
Unless otherwise	e specified or required	, aircraft bolts should be installed so that the bolthead is		
A) upward, or in a forward direction.				
	in a forward direction			
C) downward, or	r in a rearward directio	n.		
180.	E04G	AMG		
•	al figure 42 \ \Albiab of	the bolthead code markings shown identifies an AN		
corrosion resista	•	ŭ		
corrosion resista A) 1.	•	G		
corrosion resista A) 1. B) 2.	•	J		

181.	E04G	AMG		
The Society of Automotive Engineers (SAE) and the American Iron and Steel Institute use a numerical index system to identify the composition of various steels. In the number '4130' designating chromium molybdenum steel, the first digit indicates the				
A) percentage of the ba	sic element in the alloy.			
B) percentage of carbon	n in the alloy in hundredths of a	percent.		
C) basic alloying eleme	nt.			
182.	E04G	AMG		
_	nut must never be used on an			
A) under shear loading.		anoral in the bolt to		
B) under tension loading				
C) subject to rotation.	0			
,				
183.	E05G	AMG		
Which condition indicate	es a part has cooled too quickly	after being welded?		
A) Cracking adjacent to	the weld.			
B) Discoloration of the b	pase metal.			
C) Gas pockets, porosit	ty, and slag inclusions.			
184.	E05G	AMG		
On a fillet weld, the penetration requirement includes what percentage(s) of the base metal thickness?				
A) 100 percent.				
B) 25 to 50 percent.				
C) 60 to 80 percent.				
185.	E05G	AMG		
(Refer to General figure	e 45.) What type weld is shown	at G?		
A) Lap.				
B) Butt.				
C) Joint.				
186.	E05G	AMG		
Holes and a few project	ting globules are found in a wel	d. What action should be taken?		
A) Reweld the defective	e portions.			
•	veld, and reweld the joint.			
C) Grind the rough surface smooth, inspect, and reweld all gaps/holes.				
187.	E05G	AMG		

(Refer to General figure 45.) What type weld is shown at B?			
A) Butt.			
B) Double butt.			
C) Fillet.			
	 0		
188.	E05G	AMG	
•	45.) What type weld is shown	at A?	
A) Fillet.			
B) Butt.			
C) Lap.			
189.	E05G	AMG	
Select a characteristic of	of a good gas weld.		
A) The depth of penetra	tion shall be sufficient to ensur	e fusion of the filler rod.	
B) The height of the we	ld bead should be 1/8 inch abo	ve the base metal.	
C) The weld should tape	er off smoothly into the base m	etal.	
190.	E05G	AMG	
One characteristic of a good weld is that no oxide should be formed on the base metal at a distance from the weld of more than			
A) 1/2 inch.B) 1 inch.			
•			
C) 1/4 inch.			
191.	E05G	AMG	
Why is it considered good practice to normalize a part after welding?			
A) To relieve internal st	resses developed within the ba	se metal.	
B) To increase the hardness of the weld.			
C) To remove the surface scale formed during welding.			
192.	E05G	AMG	
(Refer to General figure	44.) Select the illustration which	ch depicts a cold weld.	
A) 3.			
B) 2.			
C) 4.			
193.	E05G	AMG	
(Refer to General figure A) 4. B) 1.	44.) Identify the weld caused	by an excessive amount of acetylene.	

194.	E05G	AMG	
In examining/inspecting and evaluating a welded joint, a mechanic should be familiar with A) likely ambient exposure conditions and intended use of the part, along with type of weld and original part material composition.			
B) the welding technique	ue, filler material, and temperate	ure range used.	
C) the parts, proportion	s, and formation of a weld.		
195.	E06G	AMG	
Identify the correct stat	ement.		
A) An outside microme	ter is limited to measuring diam	neters.	
B) Tools used on certification	icated aircraft must be an appro	oved type.	
C) Dividers do not prov	ride a reading when used as a ı	measuring device.	
196.	E06G	AMG	
,	e 46.) The measurement readir	ng on the illustrated micrometer is	
A) 0.2851. B) 0.2911.			
C) 0.2901.			
0) 0.2301.			
197.	E06G	AMG	
		AMG rotor shaft or the plane of rotation of a	
Which tool can be used			
Which tool can be used disk?			
Which tool can be used disk? A) Dial indicator.			
Which tool can be used disk? A) Dial indicator. B) Shaft gauge.			
Which tool can be used disk? A) Dial indicator. B) Shaft gauge. C) Protractor. 198. (Refer to General figure A) 1.411 inches.	d to measure the alignment of a	rotor shaft or the plane of rotation of a	
Which tool can be used disk? A) Dial indicator. B) Shaft gauge. C) Protractor. 198. (Refer to General figure A) 1.411 inches. B) 1.436 inches.	d to measure the alignment of a	rotor shaft or the plane of rotation of a	
Which tool can be used disk? A) Dial indicator. B) Shaft gauge. C) Protractor. 198. (Refer to General figure A) 1.411 inches.	d to measure the alignment of a	rotor shaft or the plane of rotation of a	
Which tool can be used disk? A) Dial indicator. B) Shaft gauge. C) Protractor. 198. (Refer to General figure A) 1.411 inches. B) 1.436 inches.	d to measure the alignment of a	rotor shaft or the plane of rotation of a	
Which tool can be used disk? A) Dial indicator. B) Shaft gauge. C) Protractor. 198. (Refer to General figure A) 1.411 inches. B) 1.436 inches. C) 1.700 inches.	to measure the alignment of a E06G e 47.) What is the measuremen	rotor shaft or the plane of rotation of a AMG t reading on the vernier caliper scale?	
Which tool can be used disk? A) Dial indicator. B) Shaft gauge. C) Protractor. 198. (Refer to General figure A) 1.411 inches. B) 1.436 inches. C) 1.700 inches. 199. The side clearances of A) micrometer caliper of	E06G E06G E06G E06G E06G E06G E06G E06G	rotor shaft or the plane of rotation of a AMG t reading on the vernier caliper scale?	
Which tool can be used disk? A) Dial indicator. B) Shaft gauge. C) Protractor. 198. (Refer to General figure A) 1.411 inches. B) 1.436 inches. C) 1.700 inches. 199. The side clearances of	E06G E06G E06G E06G E06G E06G E06G E06G	rotor shaft or the plane of rotation of a AMG t reading on the vernier caliper scale?	

200.	E06G	AMG		
Which tool is used to measure the clearance between a surface plate and a relatively narrow surface being checked for flatness?				
A) Depth gauge.				
B) Thickness gauge.				
C) Dial indicator.				
201.	E06G	AMG		
Which number represer	nts the vernier scale graduation	of a micrometer?		
A) .00001.	v			
B) .001.				
C) .0001.				
202.	E06G	AMG		
	nd the center of a shaft or other	cylindrical work?		
A) Combination set.				
B) Dial indicator.				
C) Micrometer caliper.				
203.	E06G	AMG		
(Refer to General figure	e 48.) What does the micromete	er read?		
A) .2974.				
B) .3004.				
C) .3108.				
204.	E06G	AMG		
If it is necessary to acco	urately measure the diameter of	f a hole approximately 1/4 inch in		
diameter, the mechanic should use a				
A) telescoping gauge and determine the size of the hole by taking a micrometer reading of the adjustable end of the telescoping gauge.				
,		ement directly from the micrometer.		
ball end of the gauge.	d determine the size of the hole	e by taking a micrometer reading of the		
205.	E06G	AMG		
(Refer to General figure	e 49.) The measurement reading	g on the micrometer is		
A) .2758.				
B) .2702.				
C) .2792.				

206.	E06G	AMG
What precision measured of round wear?	uring tool is used for measuring	crankpin and main bearing journals for out
A) Dial gauge.		
B) Micrometer caliper.		
C) Depth gauge.		
207.	E06G	AMG
The clearance betwee A) micrometer caliper.	en the piston rings and the ring	lands is measured with a
B) thickness gauge.		
C) depth gauge.		
208.	E06G	AMG
	onal inspection of a bearing in a	rocker arm be accomplished?
A) Depth gauge and n		
B) Thickness gauge aC) Telescopic gauge a	•	
O) Telescopio gaage (and miorometer.	
209.	E06G	AMG
What may be used to	check the stem on a poppet-typ	e valve for stretch?
A) Dial indicator.		
B) Micrometer.		
C) Telescoping gauge).	
210.	E06G	AMG
What tool is generally	used to calibrate a micrometer	or check its accuracy?
A) Gauge block.		
B) Dial indicator.		
C) Machinist scale.		
211.	E06G	AMG
	ed to determine piston pin out of	round wear?
A) Telescopic gauge.		
B) Micrometer caliper.		
C) Dial indicator.		
212.	G01G	AMG
Caustic cleaning prod	ucts used on aluminum structur	es have the effect of producing

A) passive oxid	ation.	
B) improved co	rrosion resistance.	
C) corrosion.		
213.	G01G	AMG
Which of the fo agents on aircr		se when utilizing chemical cleaning and/or depainting
1 Synthetic fib	er wiping cloths when using	n a flammable agent
•	wiping cloths when using a	-
	oray equipment.	naminasis agenti
A) 2 and 3	ray equipment.	
B) 2.		
C) 1.		
C) 1.		
214.	G01G	AMG
How may magn	nesium engine parts be cle	aned?
	percent caustic soda solu	
·	MEK (methyl ethyl ketone).	
		rbonize, and scrape or grit blast.
o) waon wan a	Toommoroidi oolvoni, dood	bonizo, and corape of girl black.
215.	G01G	AMG
When an anodi	zed surface coating is dam	aged in service, it can be partially restored by
A) applying a th	nin coat of zinc chromate p	rimer.
B) chemical sur	rface treatment.	
C) use of a suit	able mild cleaner.	
216.	G01G	AMG
	n battery cases and drain s ralized with a solution of	urfaces which have been affected by electrolyte
A) boric acid.		
B) sodium bicar	rbonate.	
C) potassium h	ydroxide.	
217.	G01G	AMG
	on why ordinary or otherwishing aircraft is because the	se nonapproved cleaning compounds should not be eir use can result in
	nbrittlement in metal struct	
B) hydrogen en	nbrittlement in nonmetallic	materials.
C) a general in	ability to remove compound	d residues.

218.	G01G	AMG
Select the solve	ent used to clean acrylics	and rubber.
A) Aliphatic nap	htha.	
B) Methyl ethyl	ketone.	
C) Aromatic nap	ohtha.	
219.	G01G	AMG
Fayed surfaces	cause concern in chemic	al cleaning because of the danger of
A) forming pass	sive oxides.	
B) entrapping c	orrosive materials.	
C) corrosion by	imbedded iron oxide.	
220.	G01G	AMG
A) Aliphatic nap		down of cleaned surfaces just before painting.
B) Dry-cleaning		
C) Aromatic nap		
O) Aromatic nap	Julia.	
221.	G02G	AMG
Which of these	materials is the most cath	odic?
A) Zinc.		
B) 2024 alumin	um alloy.	
C) Stainless ste	eel.	
222.	G02G	AMG
Corrosion shou	ld be removed from magn	esium parts with a
A) silicon carbic	de brush.	
B) carborundun	n abrasive.	
C) stiff, nonmet	allic brush.	
223.	G02G	AMG
	ant not to rotate the crank	shaft after the corrosion preventive mixture has been d for storage?
	age can occur from hydra	
		ylinders and dilute or wash off the corrosion preventive
	corrosion preventive mixtu	re will be broken.
2,	in solo provention	
224.	G02G	AMG

Which of the following is an acceptable first step procedure to help prevent scratching when cleaning a transparent plastic surface? A) Gently wipe the surface with a clean, dry, soft cloth. B) Flush the surface with clean water. C) Gently wipe the surface with a clean, soft cloth moistened with de-mineralized or distilled water. 225. G02G **AMG** What should be done to prevent rapid deterioration when oil or grease come in contact with a tire? A) Wipe the tire thoroughly with a dry cloth, and then rinse with clean water. B) Wipe the tire with a dry cloth followed by a washdown and rinse with soap and water. C) Wipe the tire with a cloth dampened with aromatic naphtha and then wipe dry with a clean cloth. G02G **AMG** 226. Of the following, when and/or where is galvanic corrosion is most likely to occur? A) When an electrolyte (water) covers the surface of an aluminum skin, seeps into the cracks between lap joints, and oxygen is excluded from the area. B) At the interface of a steel fastener and aluminum alloy inspection plate in the presence of an electrolyte. C) In an area of unprotected metal exposed to an atmosphere containing battery fumes, exhaust gases, or industrial contaminants. 227. G02G **AMG** Corrosion caused by galvanic action is the result of A) excessive anodization. B) contact between two unlike metals. C) excessive etching. 228. G02G AMG Which of these materials is the most anodic? A) Cadmium. B) 7075-T6 aluminum alloy. C) Magnesium.

229. G02G AMG

A primary cause of intergranular corrosion is

- A) improper heat treatment.
- B) dissimilar metal contact.
- C) improper application of primer.

230.	G02G	AMG
Galvanic corrosion is like	cely to be most rapid and severe	e when
A) the surface area of t	he cathodic metal is smaller tha	n surface area of the anodic metal.
B) the surface areas of	the anodic and cathodic metals	are approximately the same.
C) the surface area of the	ne anodic metal is smaller than	the surface area of the cathodic metal.
231.	G02G	AMG
One way of obtaining in	creased resistance to stress co	rrosion cracking is by
A) relieving compressiv	e stresses (via heat treatment)	on the metal surface.
B) creating compressive	e stresses (via shot peening) on	the metal surface.
C) producing nonuniform	m deformation while cold workir	ng during the manufacturing process.
232.	G02G	AMG
Spilled mercury on alun	ninum	
A) greatly increases sus	sceptibility to hydrogen embrittle	ement.
B) may cause impaired	corrosion resistance if left in pr	olonged contact.
C) causes rapid and se	vere corrosion that is very diffic	ult to control.
233.	G02G	AMG
The interior surface of s by which of the following		ould be best protected against corrosion
A) A coating of linseed	oil.	
B) Evacuating moisture	from the tubing before sealing.	
C) Charging the tubing	with dry nitrogen prior to sealing	g.
234.	G02G	AMG
	emove corrosion from highly stre	
A) Steel wire brushes.	smove corrosion nom mignly sur	esseu steer surraces:
B) Fine grit aluminum o	vida	
C) Medium grit carboru		
of Wediam girt darbora	nddin paper.	
235.	G02G	AMG
The rust or corrosion th	at occurs with most metals is th	e result of
A) a tendency for them	to return to their natural state.	
B) blocking the flow of e	electrons in homogenous metals	s, or between dissimilar metals.
C) electron flow in or be	etween metals from cathodic to	anodic areas.
236.	G02G	AMG
		,
Fretting corrosion is mo	ost lingly to occur	

B) only when t	wo dissimilar metals are i	but can move relative to one another. n contact. r and can move relative to one another.
237.	G02G	AMG
Which of the fo	ollowing are the desired ef	fects of using Alodine on aluminum alloy?
•		
238.	G02G	AMG
A) The present	ce of an electrolyte.	e of the requirements for corrosion to occur? area and a cathodic area.
239.	G02G	AMG
	e of corrosion residual pro	surface due to delamination of grain boundaries caused oduct buildup is called
240.	G02G	AMG
Which of the fo	ollowing are acceptable to	use in cleaning anodized surfaces?
1. Steel wool. 2. Brass wire b 3. Aluminum w 4. Stainless ste 5. Fiber bristle A) 1, 3, and 5. B) 2 and 4. C) 3 and 5.	ool. eel wire brush.	

241.	G02G	AMG
	owing may not be dete parts or structures?	ectable even by careful visual inspection of the surface of
A) Filiform corros		
B) Intergranular		
C) Uniform etch	corrosion.	
242.	G02G	AMG
For which of the	following reasons wou	ıld a water break test be conducted?
A) To make certa	ain that a newly alodize	ed aluminum surface is sufficiently coated.
B) To make certa	ain that a bare metal s	urface is thoroughly clean.
	ain that an anodizing oi ion can be made.	coating has been sufficiently removed before an electrical
243.	H02G	AMG
_	aped fuel tank measur any cubic feet are with	res 60 inches in length, 30 inches in width, and 12 inches in the tank?
A) 12.5		
B) 15.0		
C) 21.0		
244.	H02G	AMG
	aped fuel tank measur How many gallons will	res 27-1/2 inches in length, 3/4 foot in width, and 8-1/4
(231 cu. in. = 1 g	, ,	
A) 7.366	5	
B) 8.83		
C) 170.156		
245.	H02G	AMG
		qual in volume to 72 gallons of fuel.
(7.5 gal = 1 cu ft	,	
A) 540 cubic feet		
B) 9.60 cubic fee	et.	
C) 6 cubic feet.		
246.	H02G	AMG
		the area of the trapezoid.
A) 24 square fee	, ,	·
B) 48 square fee		

247.	H02G	AMG
(Refer to General figu	ure 57.) Determine th	ne area of the triangle formed by points A, B, and C.
A to B = 7.5 inches		
A to D = 16.8 inches		
A) 24.3 square inche	S.	
B) 63 square inches.		
C) 126 square inches	S.	
248.	H02G	AMG
What is the piston dis stroke of 4 inches?	splacement of a mas	ter cylinder with a 1.5-inch diameter bore and a pist
A) 9.4247 cubic inche	es.	
B) 7.0686 cubic inche	es.	
C) 6.1541 cubic inche	es.	
249.	H02G	AMG
How many gallons of in width, 3 feet in length		d in a rectangular shaped tank which measures 2 for es in depth?
(7.5 gal = 1 cu ft)		
A) 50		
7.1, 00		
•		
B) 75		
B) 75 C) 81	H02G	AMG
B) 75 C) 81 250. A four cylinder aircrafthe piston on bottom	ft engine has a cyling center, the top of the	der bore of 3.78 inches and is 8.5 inches deep. With piston measures 4.0 inches from the bottom of the
B) 75 C) 81 250. A four cylinder aircrafthe piston on bottom cylinder. What is the	ft engine has a cyling center, the top of the	der bore of 3.78 inches and is 8.5 inches deep. With
B) 75 C) 81 250. A four cylinder aircrafthe piston on bottom cylinder. What is the A) 200 cubic inches.	ft engine has a cyling center, the top of the	der bore of 3.78 inches and is 8.5 inches deep. With piston measures 4.0 inches from the bottom of the
B) 75 C) 81 250. A four cylinder aircrafthe piston on bottom cylinder. What is the A) 200 cubic inches. B) 360 cubic inches.	ft engine has a cyling center, the top of the	der bore of 3.78 inches and is 8.5 inches deep. With piston measures 4.0 inches from the bottom of the
B) 75 C) 81 250. A four cylinder aircrafthe piston on bottom cylinder. What is the A) 200 cubic inches. B) 360 cubic inches. C) 235 cubic inches.	ft engine has a cyling center, the top of the	der bore of 3.78 inches and is 8.5 inches deep. With piston measures 4.0 inches from the bottom of the
B) 75 C) 81 250. A four cylinder aircrafthe piston on bottom cylinder. What is the A) 200 cubic inches. B) 360 cubic inches. C) 235 cubic inches. 251. A rectangular shaped	ft engine has a cyling center, the top of the approximate piston of the H02G diffuel tank measures	der bore of 3.78 inches and is 8.5 inches deep. With a piston measures 4.0 inches from the bottom of the displacement of this engine? AMG 37-1/2 inches in length, 14 inches in width, and 8-7
B) 75 C) 81 250. A four cylinder aircrafthe piston on bottom cylinder. What is the A) 200 cubic inches. B) 360 cubic inches. C) 235 cubic inches. 251. A rectangular shaped inches in depth. How	ft engine has a cyling center, the top of the approximate piston of the H02G diffuel tank measures	der bore of 3.78 inches and is 8.5 inches deep. With a piston measures 4.0 inches from the bottom of the displacement of this engine? AMG 37-1/2 inches in length, 14 inches in width, and 8-7
B) 75 C) 81 250. A four cylinder aircrafthe piston on bottom cylinder. What is the A) 200 cubic inches. B) 360 cubic inches. C) 235 cubic inches. 251. A rectangular shaped inches in depth. How A) 59.75	ft engine has a cyling center, the top of the approximate piston of the H02G diffuel tank measures	der bore of 3.78 inches and is 8.5 inches deep. With a piston measures 4.0 inches from the bottom of the displacement of this engine? AMG 37-1/2 inches in length, 14 inches in width, and 8-7
B) 75 C) 81 250. A four cylinder aircrafthe piston on bottom cylinder. What is the A) 200 cubic inches. B) 360 cubic inches. C) 235 cubic inches.	ft engine has a cyling center, the top of the approximate piston of the H02G diffuel tank measures	der bore of 3.78 inches and is 8.5 inches deep. With a piston measures 4.0 inches from the bottom of the displacement of this engine? AMG 37-1/2 inches in length, 14 inches in width, and 8-1

What force is exerted of inches and the fluid pre		der if the area of the piston is 1.2 square
A) 1,020 pounds.		
B) 960 pounds.		
C) 850 pounds.		
253.	H02G	AMG
The total piston displac	cement of a specific engine is	
A) dependent on the co	ompression ratio.	
B) the volume displace	ed by all the pistons during one	revolution of the crankshaft.
C) the total volume of a	all the cylinders.	
•	·	
254.	H02G	AMG
	e 54.) Compute the area of the	
A) 52.5 square feet.	5 34.) Compute the area of the	trapezoid.
B) 60 square feet.		
,		
C) 76.5 square feet.		
255.	H02G	AMG
		nder 20 inches long and 8 inches in
diameter?	ai is required to labilicate a cylli	nder 20 inches long and 6 inches in
(Note: C = pi x D)		
A) 20 inches x 25-5/32	inches.	
B) 20 inches x 24-9/64	inches.	
C) 20 inches x 25-9/64	inches.	
,		
256.	H02G	AMG
		der height of 7 inches and a stroke of 4.5
	piston displacement of	
A) 256.88 cubic inches		
B) 259.77 cubic inches	i.	
C) 43.3 cubic inches.		
257.	H01G	AMG
Find the square root of		,e
·		
A) 111.8 x 10 to the thi	•	
B) .1118 x 10 to the ne	•	
C) 1,118 x 10 to the ne	gauve second power.	

258.	H01G	AMG
The number 3.47 x 10	to the negative fourth power is	equal to
A) .00347		
B) 34,700		
C) .000347		
259.	H01G	AMG
Which of the figures is	s using scientific notation?	
A) 1.		
B) 2.		
C) both 1 and 2.		
260.	H01G	AMG
Which of the following	is equal to the square root of (-	·1776) ÷ (-2) – 632?
A) 128.		
B) 256.		
C) 16.		
,		
261.	H01G	AMG
(Refer to the figure) S	olve the equation.	
A) 35,998.		
B) 36,002.		
C) 62,208.		
262.	H01G	AMG
Find the square root of	of 3,722.1835.	
A) 61.00971.		
B) 61.00.		
C) 61.0097.		
263.	H01G	AMG
7056.0452 x 1/72 is m	nost nearly equal to the square i	root of which of the following numbers?
A) 9,406.		
B) 9,604.		
C) 9,801.		
264.	H01G	AMG
Find the cube of 64.		
A) 4.		

B) 192. C) 262,144.		
265. (Refer to the figure) So A) 5.59 B) .1680	H01G plve the equation.	AMG
C) .0419 266.	H01G	AMG
What is the square roo A) 32. B) 64. C) 20.	ot of 4 raised to the fifth power?	
267. What is the square roo A) 1,024. B) 4,096. C) 256.	H01G ot of 16 raised to the fourth pow	AMG er?
268.	H01G	AMG
The result of 7 raised (A) 343. B) 349. C) 361.	to the third power plus the squa	re root of 36 is equal to
269. Find the square root of A) 42.708 x 10 to the B) .42708 x 10. C) .42708 x 10 to the s	negative second power.	AMG
270. Find the value of 10 ra	H01G	AMG

What power of 10 is a A) 10 to the sixth pow B) 10 to the tenth pov C) 10 to the ninth pov	ver.	AMG
272. (Refer to the figure) S A) 12. B) 60. C) 76.	H01G Solve the equation.	AMG
273. Which of the following A) 31(2) + 7 + (-3.5 x B) 480(4) + (-4) - (-3 C) 960 x 4 - (-2) + 2 =	x 2) =	AMG 844?
274. What is the ratio of a A) 5:7 B) 2:3 C) 5:42	H04G gasoline fuel load of 200 gallons	AMG s to one of 1,680 pounds?
275. (Refer to General figures) 11.9 B) 11.7 C) 11.09	H04G are 60.) Solve the equation.	AMG
276. Solve the equation.	H04G	AMG
(-3 + 2)(-12 - 4) + (-4 A) 20. B) 22. C) 28.	+ 6) x 3 =	
277.	H04G	AMG

Solve the equatio

- A) -332.
- B) -96.
- C) -108.

278. H04G AMG

Solve the equation.

$$4 - 3[-6(2+3) + 4] =$$

- A) 82.
- B) -25.
- C) -71.

279. H04G AMG

(Refer to General figure 59.) Solve the equation.

- A) +31.25
- B) -5.20
- C) -31.25

280. H04G AMG

Solve the equation.

$$1/2 (-30 + 34) 5 =$$

- A) 10.
- B) 95.
- C) 160.

281. H04G AMG

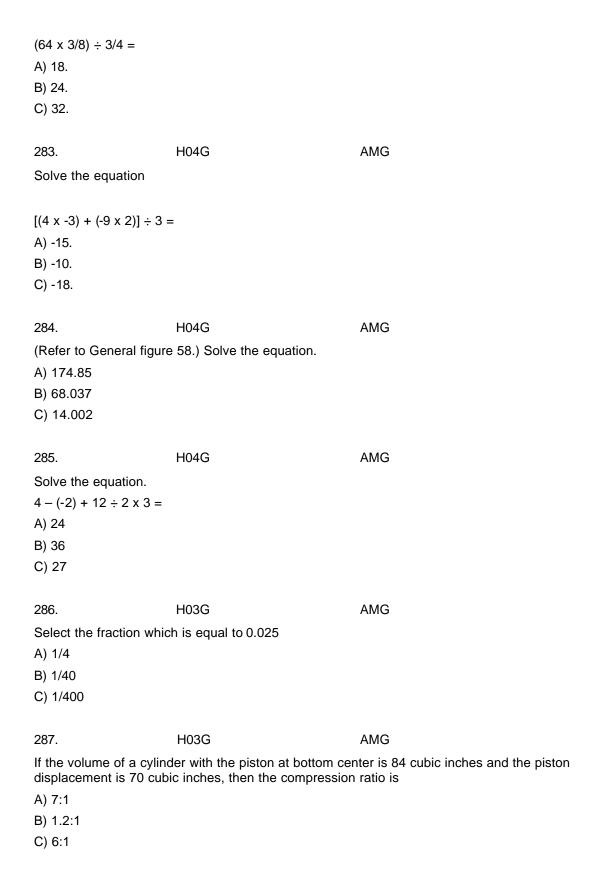
Solve the equation.

$$1/6 \div (32 \times 3/8) =$$

- A) 1.992
- B) 0.01945
- C) 0.0138

282. H04G AMG

Solve the equation.

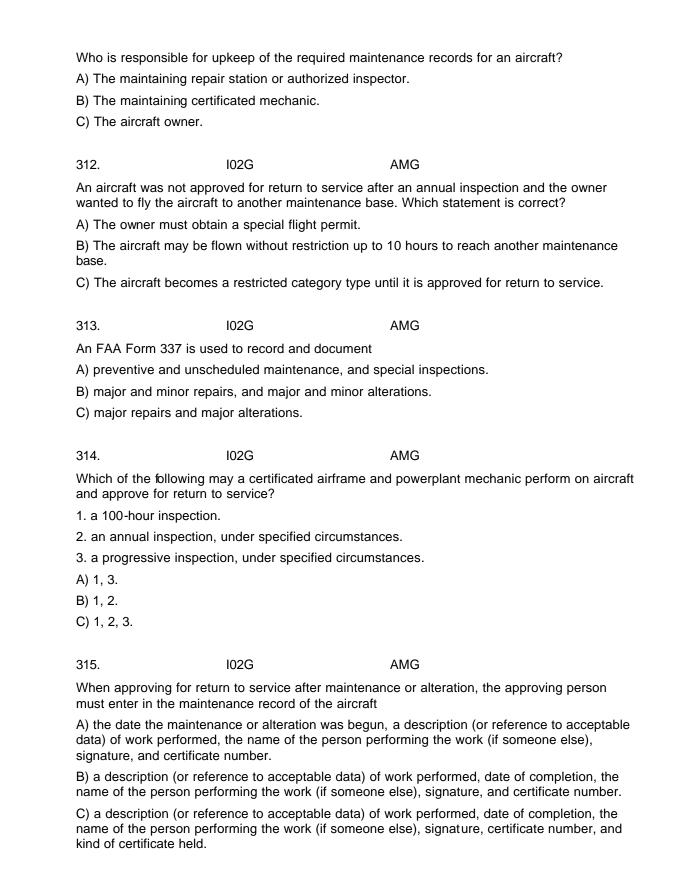


288.	H03G	AMG	
Express 7/8 as a	a percent.		
A) 8.75 percent.			
B) .875 percent.			
C) 87.5 percent.			
289.	H03G	AMG	
What is the spee	ed of a spur gear with 42	teeth driven by a pinion gear with 14 teeth turning	120
A) 196 RPM.			
B) 160 RPM.			
C) 140 RPM.			
290.	H03G	AMG	
		n of 1-1/2 inches, with a shank length of 1-3/16 incl	hes
	portion length of 5/8 inch.		,,
A) .5625 inch.			
B) .8750 inch.			
C) .3125 inch.			
291.	H03G	AMG	
Select the fraction	onal equivalent of 0.0781	25	
A) 3/32			
B) 1/16			
C) 5/64			
292.	H03G	AMG	
		7 percent power. What horsepower would be	
	percent power?	percent power. What horsepower would be	
A) 81.			
B) 70.			
C) 61.			
293.	H03G	AMG	
		AIVIO	
1.296875 is equ	ai iU		
A) 83/64			
B) 19/16			
C) 39/32			
294.	H03G	AMG	

	al which is most nearly e	qual to 77/64
A) 1.0231		
B) 1.83117		
C) 1.2031		
295.	H03G	AMG
Express 5/8 as a	a percent.	
A) .625 percent.		
B) 6.25 percent.		
C) 62.5 percent.		
296.	H03G	AMG
The parts depart selling price is \$		t on a new part. How much does the part cost if the
A) \$128.13		
B) \$125.60		
C) \$130.00		
σ, φ.σσ.σσ		
297.	H03G	AMG
An airplane flying need to travel 2,		used 60 gallons of gasoline. How many gallons will it
A) 200.		
B) 31,250.		
C) 9,375.		
298.	H03G	AMG
A pinion gear wit speed of the pini		ur gear with 42 teeth at 140 RPM. Determine the
A) 588 RPM.	•	
B) 420 RPM.		
C) 126 RPM.		
299.	H03G	AMG
How much curre the bus?	nt does a 30-volt 1/2-hors	sepower motor that is 85-percent efficient draw from
(Note: 1 horsepo	ower = 746 watts)	
A) 14.6 amperes		
B) 12.4 amperes	S.	
C) 14.3 amperes	S.	

300.	H03G	AMG	
If an engi	ne is turning 1,965 rpm at 65 pe	ercent power, what is its maximum rpm?	
A) 2,653.			
B) 3,023.			
C) 3,242.			
301.	H03G	AMG	
Select the	e fraction which is most nearly e	qual to 0.20312.	
A) 11/64.			
B) 13/64.			
C) 7/32.			
302.	H03G	AMG	
Sixty-five	is what percent of eighty?		
A) 81 per	cent.		
B) 65 per	cent.		
C) 52 per	cent.		
303.	H03G	AMG	
The radiu		32. Select the decimal which is most nearly equal to	
A) 0.2187	7		
B) 0.4375	5		
C) 0.3531	1		
304.	H03G	AMG	
	aircraft with an average life of 83	ours. Recently, 15 of these parts were removed from 35.3 hours. What percent of the maximum part life has	
A) 75.9 p	ercent.		
B) 76.9 p	ercent.		
C) 75.0 pc	ercent.		
305.	H03G	AMG	
What is th	ne ratio of 10 feet to 30 inches?		
A) 4:1			
B) 1:3			
C) 3:1			
306.	H03G	AMG	

B) 0.4844		
C) 0.4531		
307.	H03G	AMG
What is the spe	eed ratio of an input gear w	vith 36 teeth meshed to a gear with 20 teeth?
A) 9:5		
B) 1:0.56		
C) 1:1.8		
308.	102G	AMG
	nic holding an airframe and equired before the aircraft	d powerplant rating completes a 100-hour inspection is returned to service?
	oper entries in the aircraft	
B) An operation	nal check of all systems.	
C) A mechanic	with an inspection authori	zation must approve the inspection.
309.	I02G	AMG
What is/are the aircraft?	e appropriate action(s) con	cerning minor repairs performed on a certificated
1. FAA Form 3	37's must be completed.	
2. Entries must	be made in the aircraft's r	naintenance record.
3. The owner of annually.	of the aircraft must submit a	a record of all minor repairs to the FAA at least
A) 1 and 2.		
B) 2.		
C) 2 and 3.		
310.	102G	AMG
		t engine that is to be returned to service, an FAA For equired and what is the disposition of the completed
A) Two; one co	ppy for the aircraft owner a	nd one copy for the FAA.
B) Two; one co	ppy for the FAA and one co	ppy for the permanent records of the repairing agend
C) Three: one	copy for the aircraft owner,	one copy for the FAA, and one copy for the



AMG

316.

102G

Each person performing a least those items in the a A) 14 CFR Part 43. B) 14 CFR Part 65. C) AC 43.13-3.		ection shall use a checklist that contains at		
317.	102G	AMG		
Who is responsible for material or progressive inspection	-	tenance records after an annual, 100-hour,		
A) The owner or operator	of the aircraft.			
B) The person approving	or disapproving for return t	o service.		
C) The designee or inspe	ector representing the FAA	Administrator.		
318.	102G	AMG		
For aircraft operated under transferred with the aircraft		owing records must be retained and		
A) Records of maintenan progressive inspections.	ce, alterations, preventive	maintenance, 100-hour, annual, and		
B) Records of inspections	s performed in accordance	with 14 CFR part 43, Appendix D.		
C) Records of the current are next due.	t status of applicable AD' s	, and date and time when recurring AD's		
319.	102G	AMG		
A certificated mechanic w FAA Form 337 is doing w		rization who signs the appropriate block on		
A) Certifying that the wor	k was done in accordance	with the requirements of 14 CFR part 43.		
B) Approving the work for	r return to service.			
C) Certifying the mainten	ance information used as F	FAA-approved data.		
320.	102G	AMG		
	When a discrepancy list is provided to an aircraft owner or operator after an inspection is completed, it says in effect that			
A) the item inspected is u	ınairworthy.			
B) except for these discre	epancies, the item inspecte	d is airworthy.		
C) the item inspected ma	y or may not be airworthy o	depending on the discrepancies found.		
321.	102G	AMG		
In order to reconstruct los establish?	st or destroyed aircraft mair	ntenance records, what is it necessary to		
A) Dates of all maintenar	nce, preventive maintenanc	e, and alterations.		
B) Dates and/or times of	all 100-hour, annual, or pro	ogressive inspections.		
C) Total time-in-service o	f the airframe.			

322.	102G	AMG			
When work is performed on an aircraft that necessitates the use of FAA Form 337, who should prepare the form?					
A) The person wh	no performs or supervis	ses the work.			
B) The person who approves for return to service.					
C) Either the pers	C) Either the person who approves for return to service, or the aircraft owner or operator.				
323.	102G	AMG			
What is the status service?	s of data used as a bas	sis for approving major repairs or alterations for return to			
A) Data must be	least FAA-acceptable v	when it is used for that purpose.			
B) Data must be	FAA-approved prior to	its use for that purpose.			
C) Data may be F	AA-approved after its	use for that purpose.			
324.	101G	AMG			
Which is an appli	ance major repair?				
A) Overhaul of a	hydraulic pressure pun	ıp.			
B) Repairs to a p	ropeller governor or its	control.			
C) Troubleshooting	ng and repairing broker	n circuits in landing light circuits.			
225	104.0	AMC			
325.	I01G	AMG			
		otifies aircraft owners and other interested persons of indition under which the product may continue to be			
A) Airworthiness	Directives.				
B) Aviation Maint	B) Aviation Maintenance Alerts.				
C) Aviation Safety Data.					
C) Aviation Safety					
C) Aviation Safety					
C) Aviation Safety 326.		AMG			
326. If work performed	y Data. I01G I on an aircraft has bee	AMG en done satisfactorily, the signature of an authorized maintenance or alterations performed constitutes			
326. If work performed person on the ma	y Data. I01G I on an aircraft has bee	en done satisfactorily, the signature of an authorized maintenance or alterations performed constitutes			
326. If work performed person on the match A) approval of the	y Data. 101G d on an aircraft has been aintenance records for	en done satisfactorily, the signature of an authorized maintenance or alterations performed constitutes ervice.			
326. If work performed person on the mathematical A) approval of the B) approval for re	IO1G If on an aircraft has been aintenance records for eaircraft for return to see aircraft for secturn to sec	en done satisfactorily, the signature of an authorized maintenance or alterations performed constitutes ervice.			
326. If work performed person on the math A) approval of the B) approval for reC) verification that	IO1G If on an aircraft has been aintenance records for eaircraft for return to see aircraft for secturn to sec	en done satisfactorily, the signature of an authorized maintenance or alterations performed constitutes ervice. the work performed.			
326. If work performed person on the material A) approval of the B) approval for reconstruction that maintenance data 327.	IO1G If on an aircraft has been aintenance records for a aircraft for return to see aircraft for service only for at the maintenance or a second a.	en done satisfactorily, the signature of an authorized maintenance or alterations performed constitutes ervice. The work performed. Alterations were performed referencing approved			

328.	I01G	AMG
Where is the rebulletins normal	•	worthiness Directives or manufacturers' service
A) FAA Form 3	337.	
B) Aircraft mai	ntenance records.	
C) Flight manu	ıal.	
329.	l01G	AMG
During an ann person disapp	•	ound which makes the aircraft unairworthy, the
A) void the aire	craft's Airworthiness Certifica	ite.
B) submit a Ma	alfunction or Defect Report.	
C) provide a w	ritten notice of the defect to	the owner.
330.	I01G	AMG
Where should	you find this entry?	
		oved skin from outer 6 feet. Repaired buckled spee 8 in the manufacturer's structural repair manua
A) Aircraft eng	ine maintenance record.	
B) Aircraft min	or repair and alteration recor	d.
C) FAA Form (337.	
331.	I01G	AMG
	-	ribes the action taken for a control cable showin of the individual outer wires at a fairlead?
A) Wear within	acceptable limits, repair no	necessary.
B) Removed a	nd replaced the control cable	e and rerigged the system.
C) Cable repos	sitioned, worn area moved a	way from fairlead.
332.	101G	AMG
	nance record entry best desc n of 1/2-inch aluminum alloy	ribes the action taken for a .125-inch deep dent tubing?
A) Dent within	acceptable limits, repair not	necessary.
B) Dented sec	tion removed and replaced v	vith identical new tubing flared to 45°.
		vith identical new tubing flared to 37°.

Which aircraft record er at a cluster?	ntry best describes a repair o	f a dent in a tubular steel structure dented
A) Removed and replace	ed the damaged member.	
B) Welded a reinforcing	plate over the dented area.	
C) Filled the damaged a	area with a molten metal and	dressed to the original contour.
334.	101G	AMG
Which statement is true	regarding the requirements	for maintenance record format?
A) Any format that provused.	ides record continuity and ind	cludes the required information may be
B) The format provided	by the manufacturer of the a	ircraft must be retained.
C) Any desired change Aviation Administration	from manufacturer provided	format requires approval from the Federal
335.	101G	AMG
		re maintenance records for the airframe, re is the entry for the inspection recorded?
A) In each record.		
B) In the airframe recor	d only.	
C) In any one of the red	cords.	
336.	101G	AMG
For aircraft operated un maintenance records?	der part 91, when is aircraft	total time required to be recorded in aircraft
A) After satisfactorily coalteration (except insper		entive maintenance, rebuilding, and
B) After satisfactorily co	mpleting inspections.	
C) After satisfactorily coalteration (including insp	. •	entive maintenance, rebuilding, and
337.	I01G	AMG
requirements for mainte	enance (e.g., repair or alterat	is there, if any, between the record entry ion) and the record entry requirements for ormed and the type and extent of
A) There is no difference	e.	
B) Aircraft total time is r	required to be included only i	n the maintenance entry.
C) Aircraft total time is i	required to be included only i	n the inspection entry.
338.	101G	AMG
		ed on FAA Form 337, what information tion to the rest of the work description?
A) Make, model, and se	erial number of the aircraft.	

B) Aircraft nationality a	nd registration mark, and the d	ate the work was accomplished.
C) Name, date, and off	ice designator of the FAA inspe	ector from the supervising district office.
339.	K01G	AMG
(Refer to General figure	e 62.) The -100 in the title block	(Area 1) is applicable to which doubler
part number(s)?	,	, , , , , ,
A) -101.		
B) -102.		
C) Both.		
340.	K01G	AMG
What is the maintenand Airworthiness Directive		e person who complies with an
	wner/operator of the work perfo	ormed
•	e maintenance record of that ed	
•		d, by submitting an FAA Form 337.
	not conce or the many particular	a, a, aaaag aa
341.	K01G	AMG
The Air Transport Asso	ociation of America (ATA) Spec	ification No. 100
(1) establishes a stand	ard for the presentation of tech	nical data in maintenance manuals.
(2) divides the aircraft i maintenance instruction		bsystems in order to simplify locating
Regarding the above s	tatements,	
A) both No. 1 and No. 2	2 are true.	
B) neither No. 1 nor No	o. 2 is true.	
C) only No. 1 is true.		
342.	K01G	AMG
		.) Using only the information given (when
		which doubler is it possible to construct
A) -101.		
B) -102.		
C) Both.		
0.40	1/0.10	
343.	K01G	AMG
. , .	included in the Airworthiness I	•
(2) A certificated power approve for return to se	•	ninor repair on an aluminum propeller and
Regarding the above s	tatements,	

A) only No. 2 is true.					
B) both No. 1 and N	B) both No. 1 and No. 2 are true.				
C) neither No. 1 no	r No. 2 is true.				
344.	K01G	AMG			
		be issued to more than one applicant for the same t shows compliance with the applicable airworthiness			
		ed in accordance with the Technical Standard Order nstallation in a particular aircraft.			
Regarding the above	ve statements,				
A) both No. 1 and N	No. 2 are true.				
B) neither No. 1 no	r No. 2 is true.				
C) only No. 1 is true	e.				
345.	K01G	AMG			
(Refer to General fitreatment before in A) -101. B) -102. C) Both.		as necessary.) Which doubler(s) require(s) heat			
346.	K01G	AMG			
Which regulation procategory?	rovides the airworthir	ess standards for an airplane certificated in the normal			
A) 14 CFR Part 27.					
B) 14 CFR Part 25.					
C) 14 CFR Part 23.					
347.	K01G	AMG			
Technical informati can be found in the A) Aircraft Listing.		ft models, of which no more than 50 remain in service,			
B) Summary of Deleted and Discontinued Aircraft Specifications.					
	s) Summary of Defeted and Discontinued Aircraft Specifications.				
o) mack of ranaque	, Alloran.				
348.	K01G	AMG			
What information is Sheets?	generally contained	in Aircraft Specifications or Type Certificate Data			
A) Empty weight of	the aircraft.				
B) Useful load of aircraft.					

349.	K01G	AMG
		del manufactured under a type certificate, of whi ift Registry, can be found in the
A) Aircraft List	ting.	
B) Summary of	of Discontinued Aircraft Spe	cifications.
C) FAA Statis	tical Handbook of Civil Aircr	aft Specifications.
350.	K01G	AMG
The issuance	of an Airworthiness Certifica	ate is governed by
A) 14 CFR Pa	ırt 23.	
B) 14 CFR Pa	ırt 21.	
C) 14 CFR Pa	ırt 39.	
351.	K01G	AMG
When an airw	orthy (at the time of sale) ai	rcraft is sold, the Airworthiness Certificate
	,	
	nvalid lintii the aircratt is rein	isnected and annroved for return to service
•		aspected and approved for return to service.
B) is voided a	nd a new certificate is issue	spected and approved for return to service. d upon application by the new owner.
B) is voided a		·
B) is voided a C) is transferre	nd a new certificate is issue	·
B) is voided a C) is transferro	nd a new certificate is issueded with the aircraft.	d upon application by the new owner. AMG
B) is voided a C) is transferrous 352. An aircraft Type	nd a new certificate is issueded with the aircraft. K01G	d upon application by the new owner. AMG
B) is voided a C) is transferr 352. An aircraft Typ A) maximum f	nd a new certificate is issued ed with the aircraft. K01G pe Certificate Data Sheet co	d upon application by the new owner. AMG
B) is voided a C) is transferr 352. An aircraft Typ A) maximum f B) control surf	nd a new certificate is issued ed with the aircraft. K01G pe Certificate Data Sheet co fuel grade to be used. face adjustment points.	d upon application by the new owner. AMG
B) is voided a C) is transferr 352. An aircraft Typ A) maximum f B) control surf	nd a new certificate is issued ed with the aircraft. K01G pe Certificate Data Sheet co fuel grade to be used. face adjustment points.	d upon application by the new owner. AMG
B) is voided a C) is transferr 352. An aircraft Typ A) maximum f B) control surf	nd a new certificate is issued ed with the aircraft. K01G pe Certificate Data Sheet co fuel grade to be used. face adjustment points.	d upon application by the new owner. AMG
B) is voided a C) is transferr 352. An aircraft Typ A) maximum f B) control surf C) location of	nd a new certificate is issued ed with the aircraft. K01G pe Certificate Data Sheet confuel grade to be used. If ace adjustment points. the datum. K01G	AMG AMG
B) is voided a C) is transferr 352. An aircraft Typ A) maximum f B) control surf C) location of 353. Placards requ	nd a new certificate is issued ed with the aircraft. K01G pe Certificate Data Sheet contact grade to be used. If ace adjustment points, the datum. K01G ired on an aircraft are specificate is issued.	AMG AMG
B) is voided a C) is transferr 352. An aircraft Typ A) maximum f B) control surf C) location of 353. Placards requ A) AC 43.13-1	nd a new certificate is issued ed with the aircraft. K01G pe Certificate Data Sheet confuel grade to be used. face adjustment points. the datum. K01G ired on an aircraft are specists.	AMG AMG fied in
B) is voided a C) is transferr 352. An aircraft Typ A) maximum f B) control surf C) location of 353. Placards requ A) AC 43.13-1 B) the Federa	nd a new certificate is issued ed with the aircraft. K01G pe Certificate Data Sheet contact grade to be used. If ace adjustment points, the datum. K01G ired on an aircraft are specified. I Aviation Regulations under	AMG fied in r which the aircraft was type certificated.
B) is voided a C) is transferr 352. An aircraft Typ A) maximum f B) control surf C) location of 353. Placards requ A) AC 43.13-1 B) the Federa	nd a new certificate is issued ed with the aircraft. K01G pe Certificate Data Sheet confuel grade to be used. face adjustment points. the datum. K01G ired on an aircraft are specists.	AMG fied in r which the aircraft was type certificated.
B) is voided a C) is transferr 352. An aircraft Typ A) maximum f B) control surf C) location of 353. Placards requ A) AC 43.13-1 B) the Federa	nd a new certificate is issued ed with the aircraft. K01G pe Certificate Data Sheet contact grade to be used. If ace adjustment points, the datum. K01G ired on an aircraft are specified. I Aviation Regulations under	AMG fied in r which the aircraft was type certificated.
B) is voided a C) is transferred 352. An aircraft Typ A) maximum f B) control surf C) location of 353. Placards requ A) AC 43.13-1 B) the Federa C) Aircraft Specials 354. Suitability for the	nd a new certificate is issued ed with the aircraft. K01G pe Certificate Data Sheet control grade to be used. If ace adjustment points, the datum. K01G irred on an aircraft are specified. I Aviation Regulations under eccifications or Type Certifications.	AMG fied in r which the aircraft was type certificated. ate Data Sheets. AMG ith a particular engine airplane combination can
B) is voided a C) is transferr 352. An aircraft Typ A) maximum f B) control surf C) location of 353. Placards requ A) AC 43.13-1 B) the Federa C) Aircraft Spe 354. Suitability for edetermined by	nd a new certificate is issued ed with the aircraft. K01G pe Certificate Data Sheet control grade to be used. If ace adjustment points, the datum. K01G irred on an aircraft are specified on the control of the certifications or Type Certifications of a specific propeller with the datum.	AMG fied in r which the aircraft was type certificated. ate Data Sheets. AMG ith a particular engine airplane combination can lional source?

355.	K01G	AMG
	ectives are issued prima	•
	ation about malfunction	
		procedures for correcting potentially hazardous defects.
C) correct an uns	ate condition.	
356.	K01G	AMG
Where are techni	cal descriptions of certif	ficated propellers found?
	worthiness Directives.	
B) Aircraft Specif		
•	e Certificate Data Sheet	S.
,		
357.	K01G	AMG
Which of the follotype design?	owing are sometimes us	ed as authorization to deviate from an aircraft's original
1. FAA Form 337		
2. Supplemental	Type Certificate.	
3. Airworthiness [Directive.	
4. Technical Stan	dard Order.	
A) 1, 2, 3, and 4.		
B) 1, 2, and 4.		
C) 1, 2, and 3.		
358.	K01G	AMG
		as necessary.) How many parts will need to be uction and installation of one doubler?
A) 2.		
B) 3.		
C) 4.		
359.	K01G	AMG
		what kind of statement in an AD? "Required within the fective date of this AD, unless already accomplished."
A) Amendment.		
B) Compliance.		
C) Applicability.		
360.	K01G	AMG
The action require	ed by an AD may take v	vhat form?

1. Inspection.		
2. Part(s) repl	acement.	
3. Design mod	dification.	
4. Change in	operating procedure(s).	
5. Overall cha	nge in the content, form and	d disposition of aircraft maintenance records.
A) 1, 2, 3, and		
B) 1, 2, 3, and		
C) 1, 2, 3, 4, a	ınd/or 5.	
361.	K01G	AMG
(serial numbe	•	hat kind of statement in an AD? "Model 172 airplar at have not been modified with Cessna Service Kit any category."
A) Amendmer	nt.	
B) Compliance	Э.	
C) Applicabilit	y.	
362.	K01G	AMG
Type Certifica	te Data Sheets are issued f	for which of the following products?
A) Aircraft, en	gines, and propellers.	
B) Aircraft, en	gines, and appliances.	
C) Aircraft, en	igines, propellers, and appli	ances.
363.	K01G	AMG
When is a me	chanic responsible for chec	king AD compliance?
A) Never, the	owner or operator is solely	responsible.
B) When perfo	orming an inspection require	ed under part 91, 125, or 135.
C) Anytime ar	aircraft or portion thereof is	s returned to service.
364.	K01G	AMG
How long are	AD compliance records req	juired to be kept?
A) Until the w	ork is repeated or supersed	ed by other work.
B) For one ye other work.	ar after the work is performe	ed, or until the work is repeated or superseded by
C) They shall	be retained, and then transf	ferred with the aircraft when it is sold.
365.	K01G	AMG
What does the		et designation code "2 PCSM" mean?

C) Neither of the	e other two choices.	
366.	K01G	AMG
		gulatory definitions of "maintenance"? and preservation, and preventive maintenance.
B) Overhaul, re	pair, parts replacement, p	reservation, inspection, and preventive maintenance.
C) Overhaul, re	pair, parts replacement, in	spection, and preservation.
367.	K01G	AMG
What is the reg	ulatory definition of "preve	ntive maintenance"?
	nor preservation operatior ex assembly operations.	ns and the replacement of small standard parts not
B) All preservat assembly opera		placement of standard parts, including any required
C) All preservat assembly opera	•	placement of standard parts not involving complex
368.	K01G	AMG
What is the max mechanic test?	kimum penalty for cheating	g or other unauthorized conduct when taking an FAA
A) Ineligibility to	receive any certificate or	rating for one year.
B) Ineligibility to any certificate h	•	rating for one year, and suspension or revocation of
C) Ineligibility to held.	receive any certificate or	rating for one year, and suspension of any certificate
369.	K02G	AMG
Airworthiness D	rirective given was initially in service may be accum	as a total time in service of 468 hours. The complied with at 454 hours in service. How many ulated before the Airworthiness Directive must again
A) 46.		
B) 200.		
C) 186.		
370.	K02G	AMG
25 hours after th		tment of the valve mechanism will be made at the firs d in service. Subsequent inspections of the valve -hour period.
From the above	statement, at what interv	als will valve mechanism inspections be performed?
A) 100 hours.		
B) 50 hours.		

C) 125 hours.

371.	K02G	AMG		
	uts for tightness on new or net stallation. Subsequent inspection ection.			
From the above statem tightness?	nent, at what intervals should y	ou check the thro	ust bearing	nut for
A) 150 hours.				
B) 200 hours.				
C) 250 hours.				
372.		K020	3	AMG
The following is a table	of airspeed limits as given in	an FAA issued a	ircraft speci	fication:
Normal operating spee	d	260	knots	
Never exceed speed		293	knots	
Maximum landing gear	operation speed	174	knots	
Maximum flap extende	d speed	139	knots	
The high end of the wh	ite arc on the airspeed instrum	ent would be at		
A) 260 knots.				
B) 293 knots.				
C) 139 knots.				
373.	L01G	AMG		
A certificated mechanic	with a powerplant rating may	perform the		
	equired by the Federal Aviation I approve and return the same		a powerplaı	nt or any
B) 100-hour inspection	required by the Federal Aviati	on Regulations o	on a powerp	lant or any
·	dapprove and return the same required by the Federal Aviati		an an airfra	m.a
	er component thereof and appl			
374.	L01G	AMG		
A person working under powerplant rating is no	er the supervision of a certificat t authorized to perform	ed mechanic wit	h an airfram	ne and
A) repair of a wing brace	ce strut by welding.			
B) a 100-hour inspection	on.			
C) repair of an engine i	mount by riveting.			
375.	L01G	AMG		
	tions contains standards for pr		, studs, and	screws
through self-locking nu				

A) AC 43.13-2.		
•	ons or Type Certificate Data Sh	neets.
C) AC 43.13-1B.		
376.	L01G	AMG
	4 months, the Administrator ha	ges of the certificate and rating unless, as found that the certificate holder is able to
A) served as a mecha	nic under the certificate and ra	ting for at least 18 months.
B) served as a mecha	nic under the certificate and ra	ting for at least 12 months.
C) served as a mecha	anic under the certificate and ra	iting for at least 6 months.
377.	L01G	AMG
Instrument repairs ma	y be performed	
A) by the instrument r	manufacturer only.	
B) by an FAA-approve	ed instrument repair station.	
C) on airframe instrum	nents by mechanics with an air	frame rating.
378.	L01G	AMG
	iated ratings and the general o	ribes the requirements for issuing mechanic perating rules for the holders of these
A) 14 CFR Part 43.		
B) 14 CFR Part 91.		
C) 14 CFR Part 65.		
379.	L01G	AMG
	damaged engine mount with a ufacturer is considered a	new identical engine mount purchased
A) major or minor repa	air, depending upon the comple	exity of the installation.
B) major repair.		
C) minor repair.		
380.	L01G	AMG
The replacement of a the aircraft manufactu		h a new identical stabilizer purchased from
A) minor alteration.		
B) major repair.		
C) minor repair.		
381.	L01G	AMG

A) perform mir	nor repairs to instruments.	al certificate privileges, may
)-hour inspection of instruntnor alterations to instrument	
C) perioriii iiiii	ior alterations to instrumen	is.
382.	L01G	AMG
Which is classi	ified as a major repair?	
A) The splicing	of skin sheets.	
B) Installation	of new engine mounts obta	ined from the aircraft manufacturer.
C) Any repair of	of damaged stressed metal	skin.
383.	L01G	AMG
	ent of fabric on fabric cover es is considered to be a	ed parts such as wings, fuselages, stabilizers, or
A) minor repair	r unless the new cover is d	fferent in any way from the original cover.
B) minor repair	unless the underlying stru	cture is altered or repaired.
C) major repair	r even though no other alte	ration or repair is performed.
384.	L01G	AMG
A repair, as pe	rformed on an airframe, sh	all mean
A) the upkeep	and preservation of the air	frame including the component parts thereof.
B) the restorati	ion of the airframe to a con	dition for safe operation after damage or deterioration.
	inor preservation operation blex assembly operations.	s and the replacement of small standard parts not
385.	L01G	AMG
Certificated me	echanics with a powerplant	rating may perform
	ion required by the Federal t thereof, and may release	Aviation Regulations on a powerplant or propeller or the same to service.
		quired by the Federal Aviation Regulations on nts thereof, and may release the same to service.
		Federal Aviation Regulations on powerplants, and may release the same to service.
386.	L01G	AMG
An Airworthine	ss Directive requires that a	propeller be altered. Certificated mechanics could
A) perform and	approve the work for retu	n to service if it is a minor alteration.
B) not perform	the work because it is an a	alteration.
	the work because they are s or alterations to propeller	e not allowed to perform and approve for return to s.

387.	L01G	AMG
FAA certificated	mechanics may	
A) approve for re	eturn to service a major	repair for which they are rated.
B) supervise and	d approve a 100-hour ir	nspection.
C) approve for retaing(s) they ho		alteration they have performed appropriate to the
388.	L01G	AMG
	the holder of a certificate in permanent mailing	e issued under 14 CFR part 65 have to notify the FAA address?
A) 30 days.	Fa	
B) 60 days.		
C) 90 days.		
389.	L01G	AMG
What is the norn	mal duration a mechani	c certificate with airframe and/or powerplant ratings?
A) Until the hold	er is relieved of duties	for which the holder was employed and certificated.
B) Until surrende	ered, suspended, or rev	oked.
C) Until 24 mont	ths after the holder has	last exercised the privileges of the certificate.
000	1040	AMG
390.		
	L01G	
		emporary certificate after successful completion of the
Why is a mecha required tests?	nic applicant issued a t	
Why is a mecha required tests? A) To allow for reference to the second	nic applicant issued a t	emporary certificate after successful completion of the
Why is a mecha required tests? A) To allow for real B) So that a bac	nic applicant issued a t	emporary certificate after successful completion of the ation and supplementary documents.
Why is a mecha required tests? A) To allow for red B) So that a bacc C) Both of the of	nic applicant issued a treview of his/her applicate kground check/investige ther two choices.	emporary certificate after successful completion of the ation and supplementary documents. ation may be completed.
Why is a mecha required tests? A) To allow for r. B) So that a bac. C) Both of the of	nic applicant issued a teview of his/her applicately a	emporary certificate after successful completion of the ation and supplementary documents. ation may be completed. AMG
Why is a mechanequired tests? A) To allow for real B) So that a back C) Both of the off 391. What is the max	nic applicant issued a teview of his/her applicately a	emporary certificate after successful completion of the ation and supplementary documents. ation may be completed.
Why is a mechanequired tests? A) To allow for real B) So that a bace C) Both of the of 391. What is the max A) 60 days.	nic applicant issued a teview of his/her applicately a	emporary certificate after successful completion of the ation and supplementary documents. ation may be completed. AMG
Why is a mecharequired tests? A) To allow for reb. So that a bacc. C) Both of the off. 391. What is the max. A) 60 days. B) 90 days.	nic applicant issued a teview of his/her applicately a	emporary certificate after successful completion of the ation and supplementary documents. ation may be completed. AMG
Why is a mechanequired tests? A) To allow for real B) So that a bace C) Both of the of 391. What is the max A) 60 days.	nic applicant issued a teview of his/her applicately a	emporary certificate after successful completion of the ation and supplementary documents. ation may be completed. AMG
Why is a mecharequired tests? A) To allow for reb. So that a bacc. C) Both of the off. 391. What is the max. A) 60 days. B) 90 days.	nic applicant issued a teview of his/her applicately a	emporary certificate after successful completion of the ation and supplementary documents. ation may be completed. AMG
Why is a mecharequired tests? A) To allow for real B) So that a back C) Both of the off 391. What is the max A) 60 days. B) 90 days. C) 120 days. 392. When may an off	nic applicant issued a teview of his/her applicate the service of his/her applicate the two choices. L01G L01G L01G therwise qualified mech	emporary certificate after successful completion of the ation and supplementary documents. ation may be completed. AMG aporary airman certificate? AMG anic who does not read, write, speak, and understand
Why is a mechanequired tests? A) To allow for real tests? B) So that a back C) Both of the off the o	eview of his/her applicate the two choices. L01G timum duration of a tem L01G therwise qualified mech	emporary certificate after successful completion of the ation and supplementary documents. ation may be completed. AMG aporary airman certificate?

C) When employed outside the United States.

393. L01G AMG

Which of the following statements is true for a certificated and appropriately rated mechanic regarding repairs and alterations?

- A) He/she may perform an airframe major repair or major alteration, but cannot approve the work for return to service.
- B) He/she may perform airframe minor repairs and minor alterations and approve the work for return to service, but cannot perform an airframe major repair or major alteration.
- C) He/she may perform an airframe major repair or major alteration and approve the work, but not the entire aircraft, for return to service.